Exhibit A

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               IN THE UNITED STATES DISTRICT COURT
 2.
      OF THE SOUTHERN DISTRICT OF WEST VIRGINIA
3
                   CHARLESTON DIVISION
 4
 5
    IN RE: ETHICON, INC., PELVIC )
    REPAIR SYSTEM PRODUCTS ) Master File No.
 6
7
  LIABILITY LITIGATION ) 2:12-MD-02327
8
                               ) MDL 2327
     ----)
10 CHERYL BERDEN,
                       ) JOSEPH R. GOODWIN
11
                   Plaintiff, ) U.S. DISTRICT JUDGE
12
               vs.
                               )
13
    ETHICON, INC., ET AL. ) Civil Action No.
14
                     Defendants.) 2:14-CV-21966
15
16
    --- This is the Deposition of VLADIMIR IAKOVLEV, M.D.
17
18
    taken at the law offices of Blake, Cassels & Graydon,
19
    199 Bay Street, Suite 4000, Toronto, Ontario,
20
    Canada on the 11th day of September, 2018.
21
22
23 REPORTED BY: JUDITH M. CAPUTO, RPR, CSR, CRR
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	Daga 2	1	Page 4
1	Page 2	1	Upon commencing at 1:10 p.m.
1	APPEARANCES:	1 2	Opon commencing at 1.10 p.m.
2	EOD THE DI AINTIEE AND THE WITNESS.	3	VLADIMIR IAKOVLEV: AFFIRMED.
3	FOR THE PLAINTIFF AND THE WITNESS:	4	DIRECT EXAMINATION BY MR. SNOWDEN
4	DOYLE LOWTHER LLP	5	
5	BY: JAMES HAIL, ESQ.		Q. Good afternoon, Dr. Iakovlev.
6	10200 Willow Creek Road, Suite 150	6	A. Good afternoon.
7	San Diego, CA 92131	7	Q. We are here to discuss your
8		8	opinions in the Cheryl Berden case; is that your
9		9	understanding?
10	FOR THE DEFENDANT:	10	A. Yes, it is.
11	BUTLER SNOW, LLP	11	Q. All right. And did you bring a
12	BY: M. ANDREW SNOWDEN, ESQ.	12	flash drive with you today with your case-specific
13	150 3rd Avenue South, Suite 1600	13	materials?
14	Nashville, Tennessee 37201	14	A. I did.
15	Tel.: 615.651.6700	15	Q. All right. Let's take a look at
16	Email: andy.snowden@butlersnow.com	16	that, please. Thank you.
17		17	Does that flash drive contain all of
18		18	your case-specific materials that you're relying
19		19	upon with the exception of the specimens in this
20		20	case?
21		21	A. Yes, as for previous cases, I
22		22	included all records I received, chain of custody
23		23	forms of the specimen I received incoming and
24		24	outgoing, and my billing for this case.
25		25	There may be some pictures,
	Page 3		Page 5
1	INDEX	1	case-specific pictures, which I believe you already
2			, , , , , , , , , , , , , , , , , , ,
		2	have, like from Suncoast Pathology. So I did not
3	WITNESS: VLADIMIR IAKOVLEV, M.D.	2 3	have, like from Suncoast Pathology. So I did not include them.
	WITNESS: VLADIMIR IAKOVLEV, M.D. PAGE		include them.
3		3	include them. Q. Okay. Are there any case-specific
3 4	PAGE DIRECT EXAMINATION BY MR. SNOWDEN 4	3 4	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and
3 4 5	PAGE DIRECT EXAMINATION BY MR. SNOWDEN 4 CROSS-EXAMINATION BY MR. HAIL 101	3 4 5	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying
3 4 5 6	PAGE DIRECT EXAMINATION BY MR. SNOWDEN 4	3 4 5 6	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive?
3 4 5 6 7 8	PAGE DIRECT EXAMINATION BY MR. SNOWDEN 4 CROSS-EXAMINATION BY MR. HAIL 101	3 4 5 6 7 8	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of.
3 4 5 6 7 8	PAGE DIRECT EXAMINATION BY MR. SNOWDEN 4 CROSS-EXAMINATION BY MR. HAIL 101	3 4 5 6 7 8	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive
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3 4 5 6 7 8 9 10	PAGE DIRECT EXAMINATION BY MR. SNOWDEN	3 4 5 6 7 8 9 10	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive contains chain of custody forms, some medical records and an invoice; is that right?
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3 4 5 6 7 8 9 10 11 12 13	PAGE DIRECT EXAMINATION BY MR. SNOWDEN	3 4 5 6 7 8 9 10 11 12 13	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive contains chain of custody forms, some medical records and an invoice; is that right? A. Yes. Q. And the invoice is dated June 23,
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	PAGE DIRECT EXAMINATION BY MR. SNOWDEN	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive contains chain of custody forms, some medical records and an invoice; is that right? A. Yes. Q. And the invoice is dated June 23, 2018; is that right? A. Yeah, probably. Q. And it's in the amount of \$15,237.50; is that right? A. Yes, that's right.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	PAGE DIRECT EXAMINATION BY MR. SNOWDEN	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive contains chain of custody forms, some medical records and an invoice; is that right? A. Yes. Q. And the invoice is dated June 23, 2018; is that right? A. Yeah, probably. Q. And it's in the amount of \$15,237.50; is that right? A. Yes, that's right. Q. And is that total the fee for all of your work in this case? A. Does it include supplemental report?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	PAGE DIRECT EXAMINATION BY MR. SNOWDEN	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive contains chain of custody forms, some medical records and an invoice; is that right? A. Yes. Q. And the invoice is dated June 23, 2018; is that right? A. Yeah, probably. Q. And it's in the amount of \$15,237.50; is that right? A. Yes, that's right. Q. And is that total the fee for all of your work in this case? A. Does it include supplemental report? Q. It does.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	PAGE DIRECT EXAMINATION BY MR. SNOWDEN	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	include them. Q. Okay. Are there any case-specific materials other than the specimens in this case and potentially some photographs that you'll be relying on that are not on the flash drive? A. Not that I'm aware of. Q. And it looks like the flash drive contains chain of custody forms, some medical records and an invoice; is that right? A. Yes. Q. And the invoice is dated June 23, 2018; is that right? A. Yeah, probably. Q. And it's in the amount of \$15,237.50; is that right? A. Yes, that's right. Q. And is that total the fee for all of your work in this case? A. Does it include supplemental report?

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,	Page 6	1	Page 8
1	initial report and then on June 23rd, you billed an	1	case-specific findings for Ms. Berden before
2	additional \$5,462.50 for a supplemental report?	2	issuing a supplemental report that contains general
3	A. Yes, that is right.	3	topics regarding Mersilene; is that correct?
4	Q. Do you have any plans to do any	4	A. That's correct.
5	additional work in this case?	5	Q. What was the reason for doing it
6	A. Not at this point. I mean, if I	6	in that order?
7	receive more specimens or I receive more materials	7	A. No specific reason. Because there
8	then I may, but I don't plan to do anything at this	8	was a deadline to submit case-specific report.
9	point.	9	Most of this information in the supplemental report
10	Q. All right.	10	is elsewhere in some other reports, maybe not for
11	MR. SNOWDEN: Let's go ahead and mark	11	Ethicon litigation, for something else.
12	as Exhibit 1 your case-specific report for Ms.	12	Some of it was in other reports; some
13	Berden.	13	of it was not in other reports. But generally, I
14	EXHIBIT NO. 1: Expert Report -	14	was aware of the issue and then I just put it in
15	Clinico-Pathological Correlation of	15	formal sort of reports, put them into a report.
16	Complications Experienced by Cheryl	16	Not that I didn't know about all these
17	Berden dated June 4, 2018.	17	issues. I mean, I knew about these issues. I
18	BY MR. SNOWDEN:	18	learn about these issues for the last five years,
19	Q. And Dr. Iakovlev, does Exhibit	19	just being involved in mesh research.
20	No. 1 contain all of your case-specific opinions	20	Q. How many Mersilene specimens have
21	outside of the supplemental report in this case?	21	you reviewed in your practice?
22	A. Yes, it does. I mean, up-to-date,	22	A. I had several of explanted
23	unless I have new information or new specimen.	23	multifilament polyester meshes because most of ther
24	Q. Let's mark as Exhibit 2 your	24	came through, or I think all of them came through
25	supplemental report in this case.	25	all except this one came through just regular
	Page 7		Page 9
1	EXHIBIT NO. 2: Supplemental Expert	1	diagnostic work from surgeons. They were all
2	Report - Clinico-Pathological	2	hernia specimens.
3	Correlation of Complications	3	I don't think I ever had Mersilene mesh
4	Experienced by Cheryl	4	used for sacropexy. This is the first case.
5	Berden dated June 23, 2018.	5	How many of those were Mersilene? It's
6	BY MR. SNOWDEN:	6	hard to say, because when it's a diagnostic sample,
7	Q. And is Exhibit No. 2 a complete	7	there's no sticker and sometimes you cannot trace
8	copy of your supplemental report regarding Ms.	8	what it was.
		9	
9	Berden?		It is polyester and it is
10	A. Yes, it is.	10	multifilament. I would say less than ten, maybe
11	Q. Okay. And let's mark as Exhibit 3	11	ten, somewhere in that range.
12	the flash drive.	12	Q. Okay.
13	EXHIBIT NO. 3: Flash Drive containing	13	A. But it's just an estimate. I
14	Documents Reviewed by Dr. Iakovlev.	14	never counted them.
15	BY MR. SNOWDEN:	15	Q. And of those less than ten
16	Q. Looking at Exhibit 1, it is dated	16	Mersilene meshes that you've reviewed, how many di
	June 4, 2018, and is that right?	17	you review microscopically?
		18	A. All of them. I always review all
18	A. Which page is it?	l	
18 19	Q. It's on page 28.	19	meshes microscopically. I take sections from each
18 19 20	Q. It's on page 28.A. Yes, it is.	20	specimen.
18 19 20 21	Q. It's on page 28.A. Yes, it is.Q. All right. And then flipping to	20 21	specimen. Q. Was the mesh from Ms. Berden the
18 19 20 21 22	Q. It's on page 28.A. Yes, it is.Q. All right. And then flipping toExhibit No. 2, I think the date on that is June 23,	20 21 22	specimen. Q. Was the mesh from Ms. Berden the first Mersilene that you reviewed for legal
17 18 19 20 21 22 23	Q. It's on page 28.A. Yes, it is.Q. All right. And then flipping to	20 21 22 23	specimen. Q. Was the mesh from Ms. Berden the first Mersilene that you reviewed for legal purposes?
18 19 20 21 22	Q. It's on page 28.A. Yes, it is.Q. All right. And then flipping toExhibit No. 2, I think the date on that is June 23,	20 21 22	specimen. Q. Was the mesh from Ms. Berden the first Mersilene that you reviewed for legal

Page 10 Page 12 1 other Mersilene mesh for legal purposes? Mersilene mesh, no. 2 2 A. No. Q. Is it fair to say the focus of 3 Q. Okay. Have you performed any 3 your work so far on implantable mesh has been 4 4 research specifically targeting Mersilene mesh? focused on polypropylene? 5 A. Those hernia specimens, or hernia 5 A. Yes, because it's over 90 percent 6 mesh explants which were polyester multifilament 6 of all meshes on the market now. 7 meshes, they were -- they are in the group, in the 7 Q. For the supplemental report that 8 8 same group, when I analyze samples. you issued in this case, was it your idea to do a 9 9 supplemental report? I did not specifically focus, but I 10 10 keep track of them, that they're either A. I don't remember exactly whose 11 multifilament or monofilament. 11 idea at first. I felt that I need to provide extra 12 12 When I measure, for example, those information, because it's a new mesh, never 13 13 parameters you're aware of like nerve density or specifically focused on it. 14 14 degree of foreign body type reaction, I measure it I knew that I cannot put it together 15 15 for multifilament meshes as well, but I keep track before the deadline. I knew the issues but I 16 that it's multifilament not monofilament. 16 needed to put it formally, put the references in 17 17 order and other things. So it's part of the same project, but 18 18 there is no focus on multifilament yet. When I So I needed more time. And the only 19 19 analyze the data, then I start comparing them and way to do it was to issue a supplemental report. 20 20 see if there's any difference. So we decided to split: First 21 21 case-specific opinions and then whatever general Q. Have you published any of your 22 results regarding Mersilene mesh? 22 opinions I needed came in the supplemental report. 23 23 A. No, I think all published -- all O. Is it fair to say that the 24 publications were limited to monofilament designs. 24 supplemental report focuses on mesh exposure with 25 25 I have data, I keep analysis, but it just happened Mersilene and infection with Mersilene? Page 11 Page 13 1 that we limited, we focused on monofilament designs 1 A. This is the main issue with 2 because they're more prevalent. multifilament meshes. It focuses on it because 3 3 Q. Have you performed any chemical that, that's what I find different from 4 testing on any of those Mersilene meshes? 4 monofilament designs. 5 A. Well, the chemical testing I do is 5 It will have the same nerves growing 6 the same as for anything else. We use stains, we into the larger pores; it will have the same stain and see how tissues behave under different 7 7 scarring. But the features which separate it from 8 8 stains. monofilament is multifilament design. 9 9 If they absorb, if it becomes stains, There's not even difference between 10 10 that's a chemical testing. I did not do any sort polyester and polypropylene; it's mostly 11 of material science type of testing like FTIR or 11 multifilament design. That's different and that 12 12 something else, because that's not what I do. It's introduces additional risks, and the risks are 13 13 not part of pathology. erosion and especially infection. 14 14 Q. So is it fair to say any review of So that's why I focused on this, 15 15 those meshes was limited to routine pathological because I focused on the differences with 16 analysis, and potentially viewing it under 16 monofilament designs, which have been discussed 17 17 polarized light microscopy? extensively over the last five years. 18 18 A. Always polarize them. But, yeah, Q. If we step back for a moment and 19 19 the methods for routine diagnostic methods of any think about what your -- the total opinions you 20 20 laboratory. have in this case, we have a general report that 21 Q. Have you, outside of your review 21 you did involving polypropylene meshes and other 22 of Mersilene mesh under the microscope, have you 22 mesh issues, which I think you first said in wave 23 authored any publications that involve Mersilene 23 one. 24 mesh? 24 You have your Berden case-specific

25

A. Not specifically focused on

25

report and your supplemental report; is that fair?

	Viadimir ia		•
	Page 14		Page 16
1	A. Which is focusing on differences	1	monofilament mesh is better than multifilament.
2	between Mersilene and monofilament polypropylene	2	Erosion is somewhat a sort of gray
3	meshes.	3	zone. Again, if there is more chances for
4	Q. I just want to make sure there are	4	infection, there will be more chances for erosion.
5	no other reports out there; is that it?	5	Because erosion can be primary event or secondary
6	A. Yes, that's it.	6	event. Sometimes we just don't know what is
7	Q. All right. I notice in this	7	chicken and what is egg.
8	report, and speaking about the supplemental report,	8	Q. If we can turn to your
9	you cited to 65 mostly articles; is that fair?	9	supplemental report, Exhibit 2. On the second page
10	A. Yes, 65 references.	10	of the report, you note in the first paragraph that
11	Q. References?	11	mesh-specific factors play a role in secondary
12	A. Uhm-hmm.	12	types of erosions; is that true?
13	Q. Do these references form the basis	13	A. Yes.
14	of your opinion, opinions that are found within the	14	Q. What factors play a role?
15	supplemental report?	15	A. So it's been found that more solid
16	A. They provide information from	16	materials, like solid silicon strips, which don't
17	published literature. Again, it's not limited to	17	allow tissue ingrowth, like no tissue ingrowth at
18	this list because I have a long list which had been	18	all, so that's a factor.
19	served for wave cases, being global sort of	19	So the more tissue ingrowths through
20	analysis, which is over 700 publications.	20	the mesh, the less chances of erosion.
21	But these are references for specific	21	So then we can move from microporous to
22	features which were described in the general report	22	macroporous. So the same, if we compare
23	in the supplemental report.	23	macroporous with microporous materials like EPTFE,
25	Just to support specific, sort of not conclusions, but descriptions which were found in	25	again, EPTFE will have higher rates of erosion or tendency for erosion is higher.
23	conclusions, but descriptions which were found in	23	of tendency for crosion is nigher.
	Page 15		Page 17
1	the published literature.	1	So even if it's the same material, but
2	the published literature. Q. Is it fair to say that for the	2	So even if it's the same material, but different structure of a mesh, again, microporous
2 3	the published literature. Q. Is it fair to say that for the statements that you make in this report, the	2 3	So even if it's the same material, but
2 3 4	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements	2 3 4	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous.
2 3 4 5	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report?	2 3 4 5	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The
2 3 4 5 6	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with	2 3 4 5	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for
2 3 4 5 6 7	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with literature to the statements in the report, yes.	2 3 4 5 6 7	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for erosion.
2 3 4 5 6 7 8	Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with literature to the statements in the report, yes. But there is background knowledge which is	2 3 4 5 6 7 8	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for erosion. Q. Any other specific factors that
2 3 4 5 6 7 8	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with literature to the statements in the report, yes. But there is background knowledge which is supported by the global list.	2 3 4 5 6 7 8	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for erosion. Q. Any other specific factors that play a role?
2 3 4 5 6 7 8 9	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with literature to the statements in the report, yes. But there is background knowledge which is supported by the global list. Q. Have you reviewed any internal	2 3 4 5 6 7 8 9	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for erosion. Q. Any other specific factors that play a role? A. So it would be type of material,
2 3 4 5 6 7 8 9 10	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with literature to the statements in the report, yes. But there is background knowledge which is supported by the global list. Q. Have you reviewed any internal company documents regarding Mersilene?	2 3 4 5 6 7 8 9 10	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for erosion. Q. Any other specific factors that play a role? A. So it would be type of material, porosity, micro versus macro, size.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the published literature. Q. Is it fair to say that for the statements that you make in this report, the pertinent literature that supports your statements is found in the list at the end of the report? A. Yes, directly pertinent with literature to the statements in the report, yes. But there is background knowledge which is supported by the global list. Q. Have you reviewed any internal company documents regarding Mersilene? A. Not that I remember. Q. Have you asked for any? A. I don't think so, not that I remember. Q. And have you reviewed any depositions of Ethicon employees regarding Mersilene mesh? A. No. Q. Have you asked for any of those? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So even if it's the same material, but different structure of a mesh, again, microporous will introduce extra risks for erosion than macroporous. Then the size of the devices. The larger the device generally is the higher risks for erosion. Q. Any other specific factors that play a role? A. So it would be type of material, porosity, micro versus macro, size. Q. Does the type of material matter? A. Type of material matters, but usually there is a connection between the design porosity and the type of material. For example, EPTFE will always be microporous, unless you start punching big holes in it, and then it would become class 3. But if you compare different materials with identical or very similar mesh structure, for example, multifilament polypropylene versus

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A. In terms of infection,

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multifilament versus polypropylene multifilament,

	Page 18		Page 20
1	because the difference with monofilament is the	1	wood, shunt catheters, interocular implants, and
2	spaces in between filaments, and then it doesn't	2	microsutures; is that right?
3	matter as much as the material itself.	3	A. Oh, I would have to see what's in
4	Although if material starts degrading	4	those publications.
5	and cracking, it will introduce its own. But if it	5	Q. Let's take number so the first
6	was pristine, brand new, there will be no	6	one is slings. Sorry, I forgot to mention slings.
7	•	7	
8	difference, or no significant difference that I can appreciate or I am aware of.	8	MR. HAIL: It's page 13. THE WITNESS: Okay.
9	Q. You have in here, after your	9	BY MR. SNOWDEN:
	- · · · · · · · · · · · · · · · · · · ·		
10	citations at number 7, you have:	10	Q. You'd agree at least in
11	"Comparatively, meshes made out	11	Ms. Berden's case I'm going to jump from
12	of the same material, polypropylene	12	case-specific for just a second we're not
13	both different pore size show an	13	talking about a sling in Ms. Berden's case; is that
14	advantage to larger pore designs."	14	fair?
L5	Do you see that?	15	A. Yeah, it is fair, but it's mesh.
L6	A. I do.	16	Q. And then if we look at number ten
.7	Q. What do you consider here as the	17	here sorry, I'm quoting the wrong sentence.
L8	larger pore designs?	18	MR. SNOWDEN: Can we go off the record
L9	A. So, for example, if we take	19	for a second?
20	ObTape, Mentor product and that was class 3, was	20	OFF THE RECORD DISCUSSION
21	mostly microporous rather than macroporous. And	21	BY MR. SNOWDEN:
22	compare it with macroporous, or larger pore designs	22	Q. All right, Dr. Iakovlev, let me
23	like TVT or similar products, ObTape showed much	23	redirect you here.
24	higher risks for erosion and infection.	24	The next sentence talks about that
25	Not that TVT is immune to that, but, I	25	objects become exposed because they do not become
	Page 19		Page 21
1	mean, the multifilament design or class 3 design	1	integral physiological tissue component.
2	immediately showed higher complication rates.	2	Do you see that sentence?
3	Because it may take much longer for TVT to develop	3	A. Yes, I do.
4	erosions and so forth, but for ObTapes, I mean,	4	Q. "They remain a foreign body,
5	really quickly within a year or two (indicating).	5	they can damage the tissues,
6	So movement from multifilament to	6	interrupt healing and is targeted
7	monofilament designs usually give you larger pores	7	for destruction, encapsulation and
8	in entire structure.	8	expelling."
9	Q. In the next paragraph, your first	9	Do you see that?
	sentence you state that the risks of I'm	10	A. I do.
LO			
	-	11	O. Okay. And now you cite your basis
11	skipping the first part of the sentence The	11 12	Q. Okay. And now you cite your basis for support here, at least the cited basis is
.1	skipping the first part of the sentence The risks of mucosal erosion are dependent on design".		for support here, at least the cited basis is
.1	skipping the first part of the sentence The risks of mucosal erosion are dependent on design". Do you see that? The first sentence of the	12	for support here, at least the cited basis is numbers 14 through 19 from your literature list; is
L1 L2 L3	skipping the first part of the sentence The risks of mucosal erosion are dependent on design". Do you see that? The first sentence of the paragraph?	12 13	for support here, at least the cited basis is numbers 14 through 19 from your literature list; is that fair?
.1 .2 .3 .4	skipping the first part of the sentence The risks of mucosal erosion are dependent on design". Do you see that? The first sentence of the paragraph? A. Yes, I got it.	12 13 14	for support here, at least the cited basis is numbers 14 through 19 from your literature list; is that fair? A. Yes. But, see, this sentence is
.1 .2 .3 .4 .5	skipping the first part of the sentence The risks of mucosal erosion are dependent on design". Do you see that? The first sentence of the paragraph? A. Yes, I got it. Q. Is that essentially just a	12 13 14 15 16	for support here, at least the cited basis is numbers 14 through 19 from your literature list; is that fair? A. Yes. But, see, this sentence is not specific to meshes now. This sentence is
.1 .2 .3 .4 .5 .6	skipping the first part of the sentence The risks of mucosal erosion are dependent on design". Do you see that? The first sentence of the paragraph? A. Yes, I got it. Q. Is that essentially just a restatement of what we just discussed in terms of	12 13 14 15 16	for support here, at least the cited basis is numbers 14 through 19 from your literature list; is that fair? A. Yes. But, see, this sentence is not specific to meshes now. This sentence is describing our general knowledge that foreign
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Page 22

- just to show that this was normally -- in 1960, '82, '88, I mean, these are earlier publications just show to background knowledge of how foreign objects behave in the body.
 - Q. In preparation of your supplemental report, did you undertake or review the literature involving Mersilene mesh?
 - A. I did.

- Q. And what were you looking for?
- A. I put keyword "Mersilene" and searched what is available, what's -- specifically I was paying more attention to infection, because the case is about infection.

But I was searching for anything which was available, specifically for Mersilene. So I have an open mind, but I had a focus for a specific case for Ms. Berden as well.

- Q. Are there any studies pertinent to your opinions in this case that are not included on the materials list for your supplemental report?
- A. I'm not sure. I mean, I included everything I thought was relevant -- oh, directly relevant to the supplemental report.

If there were any other studies which I saw that they describe Mersilene mesh, it could be.

To me, she might just be falling in the middle, so I have to do 6 or 10 years. In some other meshes which I have seen in my practice, they became infected eight years, I believe. So it's sometimes it gets infected much later.

Page 24

So unless we have studies which follow these patients for 10, 15 years, we may never even estimate what are the true complication rates.

- Q. Did you, in your literature search, did you locate any reviews that attempted to state overall complication rates that you rejected and did not include in your report?
- A. No, I did not -- I was not focusing on specific complication rates. This is not my focus. I see that most studies are short, they don't provide -- I mean, as I said, unless it's a very long study, I wouldn't trust these numbers. The fact that it can do it, the fact that the complication exists is sufficient.

Trying to aim at specific complication rates, I think it might be misleading. Just because there is no good quality data, not because it will not provide any extra information, but it's better not to use low quality data, just use either positive or negative sort of binary approach.

Page 23

But if they are not relevant directly, like they didn't describe sacropexy, or if they didn't -- for

whatever reason I thought that they are not

directly relevant. There could be other studies, ves.

Q. So you've reviewed studies that form sort of a basis of background knowledge, but in terms of the studies that you really -- the pertinent studies you really rely on for your supplemental report, are found in your supplemental report; is that fair?

A. Yes, because my focus was generally to search for Mersilene but at the same time pay more attention to sacropexy or Mersilene used for sacropexy and the complications or infections related to Mersilene mesh.

Q. As part of that review, was your aim to determine the overall rate of erosion and infection with Mersilene mesh?

A. No, I don't think you can do that. It's very difficult to do, in terms of pinpointing exact rate of erosion. And you need to do very long studies. And in her case, it took, I think three years for her to develop the complications.

So the studies should be much longer.

Page 25

Either it can do it or it cannot do it.

In general, we know that this type of designs, multifilament designs, they have higher rates of complications and that's why they are classified separately. But this is a general background knowledge.

Q. Hypothetically speaking, if the data showed one patient out of 1,000 experience complication, is that sufficient for you to render a general opinion that the device can cause that complication?

A. If we ask about specific ability, or ability of a device to cause a complication, one patient or one study, I mean, that they can provide, it will also -- obviously if there is a series of patients or like a small series, instead of case report, value is much higher, and prospective studies are even higher.

So the quality of data will increase. One single case report, comparing with series and then retrospective studies, and then prospective studies, it will be higher. But the highest quality would be prospective studies lasting 10 to 15 years.

Q. This question is obvious to me

Case 2:12-md-02327 Document 7045:11 Filed 10/25/18 Page 9 of 30 PageID #: 184378 Page 26 Page 28 1 now, but I'll ask it anyway. Are you offering any 1 underestimation. So we can see what is the minimum 2 2 opinion about the overall risk of infection or a number, but it will be hard to compare between 3 3 different studies. version of Mersilene? 4 4 A. I don't offer opinion for specific As I said, overall, all evidence shows 5 5 that multifilament meshes will have higher numbers. I offer an opinion that the risks are 6 higher than for monofilament designs. 6 complication rates. This knowledge comes from 7 7 different publications, from earlier publications, Q. When you say monofilament design, 8 8 is that all monofilament designs, including all and that's why it was based -- basis for the 9 types of materials? 9 classification. 10 10 A. In general, class 1. Macroporous, Does that answer your question? 11 but monofilament designs will all be macroporous. 11 Q. I'm not sure, but we'll move on. 12 12 It may be variable, it can be somewhat A. Okay. 13 13 different designs or devices, but overall, class 3 Q. So the same question for your 14 14 meshes have higher risks of infection than class 1. literature review regarding erosion, did you 15 15 limit -- strike that. Q. When you were reviewing the 16 incidence of infection with Mersilene mesh, were 16 So with regard to literature review for you making any distinction between where it was 17 17 erosion as a complication, did it matter to you 18 18 implanted? whether the description was for a hernia mesh, 19 19 A. You mean in the supplemental versus a pelvic mesh, versus some other type of 20 20 report? mesh? 21 21 Q. In the supplemental report? A. Well, hernia mesh rarely erodes. 22 A. It depends where we discuss it. 22 So the erosions, I mean -- let's see what 23 23 For example, if we discuss it specifically for specifically is there. 24 sacropexy mesh, it's implanted where the sacropexy 24 (Witness reviews document). 25 25 So in terms of erosion, as I earlier mesh is. Page 27 Page 29 1 mentioned that erosion can be a secondary event or The classification was designed for 1 2 2 hernia meshes; we know that. It wasn't designed primary event. 3 3 for sacropexy meshes. So erosion can come first, and then 4 4 And the classification was based on infection. Or, infection can come first and then 5 previous studies showing -- specifically focusing 5 it will lead to erosion. Sometimes it's almost 6 on ingrowth -- tissue ingrowth and infection, but 6 impossible to distinguish. 7 7 it was all hernia meshes. In the study which I analyzed, they had 8 8 Q. So in terms of when you're looking both complications, erosion and infection. But, as 9 9 at the literature in this for your supplemental I said, in this specific location, a mesh can lead 10 10 report, and determining the incidence of infection to an erosion. 11 11 with Mersilene, did you make any distinction For hernia meshes, when the mesh is 12 12 between papers that showed the rate in hernia mesh, buried deeper down, there is corrosion; it's small. 13 13 versus mesh implanted with abdominal sacral If there is an erosion it's usually chronic sinus 14 14 colpopexy, versus other types of mesh? formation from infected mesh. 15 15 A. So, as I said, the numbers can be And vaginal location, either for 16 16 very -- the range of numbers can be quite broad transvaginal placement or through abdominal 17 17

depending on quality of data and follow up time and If we have a number, it means it cannot drop below that because these old flaws in the

study, they will lead to underestimation. It is very hard to have a flaw in the study which will overestimate. But all deficiencies in the studies,

especially short follow up, will lead to

placement, the risk of erosion. But we cannot state or we don't know if it is primary erosion or

secondary erosion. The conclusion of that study was that better material is needed to avoid erosion

21 rates. 22

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I don't think I can compare many studies, specifically for erosion rates, just because we don't have good quality data.

But in this specific publication, it

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Page 30 Page 32 1 was shown that it is at least 5.5 percent and I 1 declined. Usually it means the uses has declined. 2 2 estimate that it may double or triple if you do Q. Is it your opinion that's the 3 followup, sufficiently long followup. 3 result of the knowledge of the risk of infection? 4 Q. And we'll talk about that study in 4 A. I think it's combination, if 5 5 a little bit. people understand that they bring specific risks, 6 You mentioned in your report, on 6 they may not be sold by as many companies, surgeons 7 7 may not buy them or don't use them. page 3, that reports of infection associated with 8 8 monofilament mesh, Mersilene, date back to at least I mean, there are multiple factors around -- if there are more superior materials and 9 9 the 1970s; do you see that? 10 10 A. Yes. more superior designs, people prefer others. Both 11 Q. And at the end of your report, you 11 ends, manufacturers and users. 12 12 conclude that Mersilene mesh -- strike that. Q. Okay. And in terms of the risk of 13 13 Would you agree that Mersilene mesh has erosion for Mersilene mesh, I ask the same 14 14 been used for decades? questions. Is it the same answer? 15 15 A. Yes, for hernia surgery, in low A. For? 16 volumes and in the end it became classified as 16 Q. For the risk of erosion with 17 class 3 and was not -- as we all know, it's not a 17 Mersilene mesh? Was it well-known after 1997? 18 18 preferred choice for surgeries. Either hernia or A. Well, it was a very low volume of 19 19 vaginal surgeries. news, as I understand it. It wasn't a large 20 20 Q. And the risk of infection with volume, and there was not that many publications. 21 21 In the specific publications which are Mersilene mesh has been known since at least the 22 1960s; is that fair? Sorry, 1970s; is that fair? 22 referenced it is clearly described in there, 23 23 A. There were reports and at the time because it's not -- there is no large volume of 24 the use of mesh was in very low volumes, there were 24 literature on sacropexy meshes or Mersilene used 25 sporadic reports. From what I understand, the 25 for sacropexy. Page 31 Page 33 1 1 information was there, but it was not organized in It was never used in large volumes and 2 2 there was no large volume literature. sort of clean classification. 3 3 The time when it was verbally sort of Q. Do you know if Mersilene sutures 4 4 are used at St. Michael's Hospital? established and put into a square box of 5 classification, it was by Amid in the '90s. 5 A. You mean polyester multifilament? 6 So we don't know how exactly many I mean, there may be Ethibond. It's not Mersilene 7 people were aware, we don't know what's -- the per se, but polyester multifilament. 8 8 Q. Let's start first with Mersilene information was out there, but how widespread that 9 9 knowledge was, we don't know. suture. 10 10 Q. Okay. A. I do not know if it's specifically 11 A. By '90s I could say every surgeon 11 Mersilene, but they use multifilament polyester 12 12 should be aware, or at least have some, or source sutures, ves. 13 13 where to learn it. Q. Do you know if Mersilene mesh is used at St. Michael's Hospital? 14 Q. And then if I understand the 14 15 15 conclusion here, or the concluding page of your A. I have seen it only explanted. I 16 report, it's your opinion that the use of Mersilene 16 have never seen one used as a primary repair. 17 17 has declined significantly since the 1990s; is that Again, I receive specimens when 18 18 something goes wrong. I'm not aware of what fair? 19 19 A. My opinion is, or at least from surgeons are using. My understanding was mostly 20 20 what I see in the number of publications, the these other designs. 21 interest declined. So the number of publications 21 Q. Have you ever warned anyone 22 22 at St. Michael's Hospital that they shouldn't be declined. 23 23 I don't know the numbers they use. It using Mersilene? 24 may stay the same, it could have dropped, but 24 A. What conversations I had? There 25 25 interest, in terms of scientific interest, dropped, was one excision and a surgeon asked me what I see.

Page 34 Page 36 1 And I said, well, it looks different. 1 decline. Or if -- I've used it for many other 2 2 This was one of the first experiences keywords, like vaginal mesh. You may have seen my 3 3 report which is using the same approach. was multifilament design. I said, it looks 4 4 different. It's not monofilament; what it can be? So you just put a keyword and then you 5 5 I said it can be Mersilene, I remember see what's interest, when the interest appears. 6 6 It's interesting because then you see at that time specifically Mersilene. 7 7 And he said, it could be, but I thought -after introduction of the device on the market, 8 that's what he said. He said, "I thought nobody is 8 then there's a spike, then enthusiasm drops a 9 9 using multifilament designs anymore". So that was little bit but the use stays stable or drops a 10 10 impression of an experienced surgeon. little bit. 11 I think by now he retired, but he's 11 So you can have some idea what's 12 12 been in practice a long time. So he was a bit interest for researchers and what's the use of the 13 13 surprised that there are still multifilament meshes devices. 14 14 out there. And for most publications, for most 15 15 So to answer your question, it's not me keywords, this curve goes up. Because world 16 who advised but it was the surgeons who actually 16 population grows, number of researchers grows, and 17 17 so for pretty much any -- most of keywords, the told me that they are surprised that somebody is 18 18 number of publications goes up. still using it. 19 19 Q. Do you recall who that was? But for Mersilene it dropped. Or at 20 20 least it didn't go up. It was an increase A. It was an older surgeon. He 21 21 retired. I don't remember now. beginning from '60s, which reflects natural 22 22 evolution of things to '90s. But then after '90s Q. Have you ever told anyone at St. 23 23 Michael's that Mersilene was harming the patients? it didn't go higher. 24 A. No, I didn't. Again, because when 24 And classification for type 3 devices --25 25 oh. Mesh classification came about somewhere in I was talking to surgeons, I understood that they Page 35 Page 37 1 know more about it than me. So, I mean, who am I 1 the '90s. So after '90s, there's no increase. 2 2 to teach them if they already know better than me? Q. So what conclusions are you 3 3 And then when you go to conferences and drawing from this data for purposes of Mersilene? 4 4 you mention multifilament designs, and everybody A. There is no conclusion. I'm just 5 say, infection. Infection, infection, infection. 5 demonstrating that the design didn't take off, 6 Q. How long have you been hearing 6 didn't become prevalent neither in practice nor in 7 7 that at conferences? research? 8 8 A. Since I first started going to the Q. And what is it basis for being 9 9 hernia conferences, I mean. I think it was in -able to make the association between the numbers of 10 sorry, 2013, 2014, somewhere in there. Again, I 10 publications and what you state on your report 11 11 that, "Experiences and knowledge affected use and was introduced in this field starting from 2012. 12 12 But the conferences are for surgeons, introduction of new multifilament designs"? 13 13 and surgeons have been in this field for decades. A. No new designs. Or, at least, the 14 Some have been practicing for 40 years. They saw 14 newer designs were not multifilament designs. 15 15 all of these meshes coming and going. So, okay. 16 16 Q. At the end of your report, end of "The above described 17 17 your supplemental report, you have a chart or a experiences and knowledge affected 18 18 graph in your -- in the body of the report; do you use and introduction of new 19 19 see that? multifilament mesh designs. For 20 20 A. On page 12. example, in published literature, an 21 Q. On page 12, yes? 21 annual number of publications using 22 22 the keyword Mersilene listed on A. Yes. 23 23 Q. What is the purpose for including PubMed declined significantly since 24 this? 24 the 1990s." 25 25 A. Just to show the dangerous So I know I'm aware that no other

Page 38 Page 40 1 multifilament designs were introduced, either. So 1 bibliometric method. Sometimes the 2 2 that's why I'm saying it affected new multifilament results are relevant, sometimes they 3 3 designs. require extensive checking, but they 4 4 The only multifilament mesh design must always be interpreted very 5 5 which was introduced for vaginal surgery was carefully"? 6 ObTape, which was withdrawn from the market. And 6 A. That's what I would say as well. 7 which showed higher complication rates. That's it. 7 As I said, this is one of the indicators, one way 8 8 Since then, there were no multifilament of showing -- and I said, there is a decline and if 9 mesh, as I am aware of, on the market for vaginal 9 we question the validity of the search, at least 10 10 surgeries. there is no increase. 11 Q. My question is a little bit 11 But we also know by other factors that 12 12 the design didn't take off. So if there's nothing, different. 13 13 I guess, where did you get the idea and there is nothing new. 14 14 that's what I mean by the basis. What's the basis This information can be presented in 15 15 for saying, I can look at the number of times multiple different ways. I chose this because it's 16 something is mentioned on PubMed and that is 16 a graph, which is easy to see. But everybody knows 17 17 associated with the interest and use of a product? that Mersilene is not and has never been a 18 18 A. Oh, it's just one of the prevalent design. The interest never took off. 19 19 indicators. It's not direct connection, it's one Q. Have you ever entered 20 20 of the indicators. polypropylene into the -- into that web page? 21 I see that no new multifilament designs 21 A. Yes. Polypropylene, vaginal mesh, 22 were offered. I mean, all devices for monofilament 22 hernia mesh, hernia polypropylene. I did multiple 23 23 designs -- there was only one design I am aware of searches. As I said, some of the graphs are in my 24 offered for slings. It didn't last for long. 24 other reports. 25 25 When you search for Mersilene, it's not And you can trace, it's relatively Page 39 Page 41 1 accurate. You can trace the number of publication going up. The number of -- the interest is not --1 2 2 appears not to be increasing. spikes after introduction of the device, and then 3 3 So everything started revolving around there is a dip after FDA warning, or it can reflect 4 4 monofilament designs, which have their own different other -- for example, specific 5 drawbacks, of course. 5 introduction, specific surgeries. 6 Q. Do you know who Dan Corlan is? 6 So whatever the drawbacks of these 7 7 A. No. websites are, from what I have seen it follows the 8 8 Q. It's his website, right? historical events relatively well. 9 9 A. Yeah, yes. I mean, you can Q. Have you ever put your name in 10 probably do it through other search engines, but I 10 there? 11 11 found this website is easy to use. You just enter A. No. 12 12 Q. I have to tell you there's a dip. a keyword and you get the numbers. 13 13 MR. SNOWDEN: Go off the record. Can Q. Do you know what his background 14 is? 14 we take just a quick break? 15 15 -- RECESS TAKEN AT 2:08 --A. No, I don't. 16 16 Q. Did you validate the methodology -- UPON RESUMING AT 2:11 --17 17 that that website uses? BY MR. SNOWDEN: 18 18 A. No. Q. All right, Doctor. I want to ask 19 19 Q. Did you read the warning on the you about the supplemental report beginning on 20 20 website about the use of the data? page 8, and it's my understanding from my review --21 21 strike that. A. There could be some warnings, yes. 22 22 If you go to page 8 of your I don't remember now. 23 23 Q. So you don't remember: supplemental report and specifically talking about

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a given feature is a very gross

"WARNING: Counting papers with

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where it begins, "The earliest attempts" and then

beyond that. What is the purpose of this portion

Page 42 Page 44 1 of your report? many pieces of information. I can't say that one 2 2 MR. HAIL: Objection to form. piece of information was more significant than the 3 3 others. So bit by bit, each source of information THE WITNESS: So the initial portion, 4 4 or initial part is describing classification and was providing more information to form my opinions. 5 5 relevance of classification for Mersilene design, How significant it was, I can see that 6 6 in these publications, they describe the erosions, or how the Mersilene mesh, and why it became 7 7 infection, formation of chronic sinus. So it's at class 3. 8 8 And then from page 8, I'm focusing on least there is an example that the design can 9 9 result in this complications. Mersilene mesh for pelvic surgeries. So this is 10 10 from general sort of multifilament design, more Q. And I think we've covered this 11 focusing to multifilament design used in pelvic 11 before, but does it matter to you how many women 12 12 surgeries. were involved in the studies that are cited there? 13 13 A. I mean, obviously the larger the BY MR. SNOWDEN: 14 14 Q. In that paragraph beginning, "The number, the better quality, the better quality of 15 15 earliest attempts to use multifilament mesh" on 16 page 8; do you see that? 16 But you can go only by what you have. 17 17 If there is no large volume of literature, whatever A. I do. 18 18 Q. Okay. The next sentence: "Among is available is available. 19 19 other" -- sorry after that one: As I said, that my opinions were formed 20 20 "Later, erosions, infection and using multiple sources of information. Some had 21 21 more information, some had better quality of formation of chronic sinus reported 22 in the 1990s for Mersilene mesh used 22 information, some less. 23 23 for pelvic prolapse surgeries." Q. And how would you assess the 24 Do you see that? 24 quality of the information in number 45, the paper 25 25 by Creighton? Page 43 Page 45 1 A. I do. 1 A. I would have to see the 2 publication. And there's no scale, I don't think I Q. And for that you've cited to two 3 articles; is that correct? 3 can put a scale on it from 1 to 10. And generally, 4 4 there will be better and lower quality but I don't A. Yes. 5 5 Q. And then you go on to say that: think we can scale them. 6 "This procedure is not 6 Q. Is it your practice to include 7 7 recommended as a primary procedure papers you find to be of poor quality in your 8 8 for the repair of anterior vaginal report? 9 9 segment." A. As I said, sometimes you just go 10 10 Do you see that? by what you have. I'm not the researcher. I'm 11 A. I do. I just copied that sentence 11 just researching published literature and trying to 12 12 from publication. find information. 13 13 Q. Why did you include this quoted So any source of information can be 14 14 portion of that paper? useful, but then I cannot control what the quality 15 15 A. Because I saw it as relevant. of the data is there. 16 16 Q. How is it relevant? When there is a large volume, when 17 17 A. Well, it's a conclusion of the there are 500 publications, you have luxury of 18 18 picking or trying to assess what's the difference, researchers who researched that specific type of 19 19 mesh and for pelvic surgeries. whether the better quality papers, whether the 20 20 You can go to that paper and see the lower quality papers, you still pay attention to 21 overall, it was a scope of the paper. But those 21 all of them. But then you have more choices. 22 22 Q. And you included, if I understand researchers concluded what they concluded. 23 23 Q. Were their conclusions significant your testimony, you included the number 46 because 24 to your opinions in this case? 24 it was relevant to the Mersilene device; is that

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fair?

A. My opinions were formed based on

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	- Wrad Hillrestan	V 021	•
	Page 46		Page 48
1	A. I would have to see the	1	Q. Okay. And of those two, one with
2	publication exactly. But that was a Mersilene mesh	2	vaginal suture passage, and the other with vaginal
3	used, as far as I understand from the text. So we	3	mesh placement, correct? It's on the first page
4	can put I mean, you probably have it printed, so	4	under "Study Design".
5	it would be useful for me to have it in front of	5	A. Are you reading sorry. I was
6	me.	6	in the text, in the body.
7	Q. And then continuing in that	7	(Witness reviews document).
8	paragraph, you state that more data were	8	Q. Third line down under "Study
9	accumulated by 2000; do you see that?	9	Design"?
10	A. Yes.	10	A. So four groups: Abdominal sacral
11	Q. And in this study, it says it's a	11	colpopexy, abdominal sacral colpoperineopexy and
12	larger study that followed 273 patients; do you see	12	two combined vaginal and abdominal colpoperineopexy
13	that?	13	groups.
14	A. I do.	14	Q. Would you agree that Ms. Berden,
15	Q. Do you recall how many of those	15	if she were in this study, she would have fallen
16	273 patients had been implanted with Mersilene	16	into the abdominal sacral colpopexy group; is that
17	mesh?	17	fair?
18	A. I think all except four; that's my	18	A. Well, you would have to check with
19	recollection. Again, if we discuss a paper I would	19	the urogynecologist. I mean, because there might
20	like to have it in front of me.	20	be some nuances between the surgeries.
21	Q. Mark this as Exhibit 4, please.	21	I mean, overall, the focus of this
22	EXHIBIT NO. 4: Article Entitled,	22	study was sacropexy procedures using Mersilene
23	"Vaginal Mesh Erosion After Abdominal	23	mesh. Most of them were done by Mersilene mesh and
24	Sacral Colpopexy" by A. Visco, et al.	24	Ms. Berden falls in this overall group.
25		25	There is some differences within that
25	D 47	25	
	Page 47		Page 49
1	BY MR. SNOWDEN:	1	Page 49 group, and I think it would be better to ask the
1 2	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper	1 2	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is.
1 2 3	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list	1 2 3	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an
1 2 3 4	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list for your supplemental report?	1 2 3 4	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an example of a study of sacropexy procedures using
1 2 3 4 5	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list for your supplemental report? A. Yes, it is.	1 2 3 4 5	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an example of a study of sacropexy procedures using mostly Mersilene mesh.
1 2 3 4 5 6	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list for your supplemental report? A. Yes, it is. Q. Okay. Counsel can correct me if	1 2 3 4 5	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an example of a study of sacropexy procedures using mostly Mersilene mesh. Q. Okay. And in your report, you
1 2 3 4 5 6 7	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list for your supplemental report? A. Yes, it is. Q. Okay. Counsel can correct me if I'm wrong, but Ms. Berden was implanted with	1 2 3 4 5 6 7	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an example of a study of sacropexy procedures using mostly Mersilene mesh. Q. Okay. And in your report, you cite the reported overall erosion rate of
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1 2 3 4 5 6 7 8	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list for your supplemental report? A. Yes, it is. Q. Okay. Counsel can correct me if I'm wrong, but Ms. Berden was implanted with Mersilene mesh with an abdominal sacral colpopexy; is that your understanding?	1 2 3 4 5 6 7 8	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an example of a study of sacropexy procedures using mostly Mersilene mesh. Q. Okay. And in your report, you cite the reported overall erosion rate of 5.5 percent, correct? A. Overall for all procedures, yes.
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1 2 3 4 5 6 7 8 9 10 11	BY MR. SNOWDEN: Q. And Doctor, is Exhibit 4 the paper that you cite at number 47 in your materials list for your supplemental report? A. Yes, it is. Q. Okay. Counsel can correct me if I'm wrong, but Ms. Berden was implanted with Mersilene mesh with an abdominal sacral colpopexy; is that your understanding? A. Yes, it is. Q. In the Visco paper, we'll call number 47 the Visco paper since that's the first	1 2 3 4 5 6 7 8 9 10 11	Page 49 group, and I think it would be better to ask the urogynecologist to see exactly where nuances is. But overall, to me, this study is an example of a study of sacropexy procedures using mostly Mersilene mesh. Q. Okay. And in your report, you cite the reported overall erosion rate of 5.5 percent, correct? A. Overall for all procedures, yes. Again, we can discuss the quality of that number with degree of possible underestimation, but at the time when they stopped the study that was the
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abdominal colpoperineopexy groups; is that true?

A. Yes, that is my understanding.

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For whatever reason, this procedure,

this specific procedure came about with one

Page 50 Page 52 1 publication, or new surgeon came. So that it in your report? 2 2 procedure could have been started only later on. A. Again, enough to be included. Not 3 3 that it is the only source of information or the So the follow up would be shorter than for other 4 4 main source of information. 5 5 So, I mean, to me, the general rule of It's information. It's a source of 6 thumb in research is, first, you aim at the larger 6 information for Mersilene mesh used for sacropexy, 7 7 group, sort of that will give you overall better which is closer to what Ms. Berden had. Or just 8 8 quality of data, although it will not be a overall, use of Mersilene mesh for pelvic 9 9 surgeries. specific, but quality of data will be large. 10 10 Q. On the next page, you say, page 9 Once you start splitting, you have to 11 be careful because you may have very large 11 in the middle of the page: 12 12 "Considering that, variation in the quality of data due to specific 13 13 reasons as I mentioned. statistically medians closely 14 14 Q. Is that the reason you didn't represent 50th percentile, the 15 15 consider the 3.2 percent mesh erosion rate for lifelong rates would be expected 16 abdominal sacral colpopexy group? 16 more than to double with 17 17 A. That was one of the reasons. sufficiently long follow up time." 18 18 Q. What are the other reasons? Do you see that? 19 19 A. Because, first of all, I didn't A. I do. 20 want to include smaller groups, because they will 20 Q. What does that mean? 21 21 have larger variation. A. So if we check the median followup 22 22 for the entire study was 5.8 times -- sorry, I'm a Some rates are as high as 16 and 23 23 40 percent. So I didn't want to choose specific little tired. 24 groups, as I mentioned, because of the large 24 So median length of follow up was 5.8 25 25 month for the entire study. And then, the median variation. Page 51 Page 53 1 1 number of month to appearance of mesh erosion was And you can see the spread, from 3.2 to 2 2 40 percent. It is a huge spread. 5.5 percent is 15.6 month. And then 12 month for different, and 3 3 later 9-month. more representative of an entire approach. 4 4 And if there are differences between So each group had range. But all those 5 the groups, they may or may not be true ranges, or most of them, were at least double or --6 differences. They may be differences due to 6 were at least double or triple of the median 7 7 factors like I mentioned. New surgeons came in, followup time. 8 8 new procedure became in fashion, specific time So if you think about it, if it takes, 9 9 point. for example, anywhere between 4 to 15 month to 10 10 Q. Do you see that the abdominal develop a complication, and the longest will be 11 11 sacral colpopexy group had the majority of the 15.6 month to develop a complication for specific 12 12 study participants in this study at 155? patients, and your study only is limited to 5 13 13 A. Yes, it was a larger group. months or 6 months, any time shorter than the 14 14 Q. Do you know any of the authors of median appearance of median time to appear -- I'm 15 15 this publication? tired. 16 16 MR. HAIL: Do you want to take a break? A. No, I don't. 17 17 THE WITNESS: Yes, a short break. Q. Do you know if they're professors 18 18 MR. SNOWDEN: Usually not in the middle at Duke? 19 19 A. Well, I can see that it's coming of an answer but it's fine. from Duke -- well, Durham, North Carolina, that's 20 20 MR. HAIL: He can finish. 21 Duke University. 21 -- RECESS TAKEN AT 2:30 --22 Q. Is that a respected institution? 22 -- UPON RESUMING AT 2:32 --23 23 A. As far as I know it is. THE WITNESS: So the answer is that the

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Q. Did you find this publication of

enough quality for you to include it and rely upon

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followup of entire study was significantly shorter,

or median followup of entire study was shorter than

Page 54

the median time for -- until appearance of erosions.

Therefore, the study just didn't follow

Therefore, the study just didn't follow patients long enough to catch complications. And it was severely shorter. It's not something -- I expect they didn't detect half of the complications.

BY MR. SNOWDEN:

Q. How are you able to determine the number of complications they didn't detect, if they didn't detect them?

A. Well, if it's median time for followup, and then median time for complication, for timing of complications, this is roughly 50th percentile.

So, for example, the largest group, which is abdominal only sacropexy, you just mentioned that it was largest group.

Their median time until appearanced erosion was 15.6 month. And overall study was, median time for overall study was 5.8 month, but specifically for abdominal sacral colpopexy, the same group, 6.5 month.

So the study was only half long as it takes for the complications to appear, even

certainty, my opinion would be severe underestimation.

Q. Okay. Are you able to then estimate the -- what the true percentage of complications should have been in this study?

Page 56

A. No, you cannot. You have to follow the patients for 30 years. This study was cut short, therefore, they only scratch the surface.

And based on their numbers, it shows that the study severely underestimates overall risk of complications.

Q. Is it fair to say that you're using the study to provide a floor for the erosion rate with Mersilene?

A. No, I'm not using it to provide a floor. I can tell you that if you ask me what that number may mean, I can tell you that it's likely minimum complications. But I would not use it as a floor.

Because if you go longer, then you will reach another floor. If you follow them even longer, you will reach another floor. It will be a continuous process again. So even for the floor, it will be dependent on length of studies. I don't

Page 57

Page 55 shorter. Because 6.5 months time two will be 13 month. But it takes 15 month for complications to appear, for median number.

So 50 percent of complications are expected to appear within 15 month, and then another 50 percent will appear after 15.6 months. But this is an estimate, again, because the study didn't go far enough. So it likely, even 15.6 is an underestimation.

Q. Is there any accepted method of estimating the complications that were not reported in the study, as you've done?

A. I'm not estimating, I'm just estimating how much -- I'm just analyzing the median follow ups. There's no estimation. I don't know by how much they are underestimating. It can be double or triple, just based on the numbers.

Again, there is no exact estimation, but there's obvious underreporting. And the degree of underreporting can be times, times two or times three.

Q. Are you able to say to a reasonable degree of medical certainty what the degree of missed complications was in the study?

A. To a reasonable degree of medical

expect it to drop lower than 5.5.

Q. Okay. Are you basing your opinions on any other studies that show a better representation of the erosion rate for Mersilene mesh?

A. I'm not aware of long-term studies, of sufficiently long-term studies, something like 15 or 20 years. I'm not aware of those, I have not found them. Sufficiently large and sufficiently long.

It has to be focused, it has to be large, because there's no point of reporting all complications for 2 or 3 patients. So it has to be prospective, long, large study. And that's what I was looking for, I couldn't find it.

Q. You'd also agree that reporting 1 or 2 complications in a small number of patients is problematic?

MR. HAIL: Objection. Argumentative. THE WITNESS: What do you mean "problematic"?

BY MR. SNOWDEN:

- Q. Well, okay. Can you read back his last answer, not the question but the last answer.
 - -- Reporter's Note: Whereupon, the

Page 58 Page 60 1 question was read as recorded above. some other meshes, as I understand it, I think at 2 2 THE WITNESS: Yes, what I meant, I least four, so it's not exclusive. But they used 3 3 wouldn't take into consideration, or would consider Mersilene in large volume. 4 4 them but I wouldn't take them as a high-quality Q. Okay. 5 5 A. Specifically for that procedure. data if there is a study for 2 or 3 patients. 6 You can report them. I mean, it gives 6 Q. Do you recall reading that in the 7 you some information. But you have to understand 7 comment that, "We use Mersilene mesh almost 8 it's low-quality data. 8 exclusively in our vault suspensions and cannot 9 9 comment reliably on the erosion rates of the other BY MR. SNOWDEN: 10 10 Q. Okay. Would you also agree that a materials"? 11 study with a small number of patients that has 1 or 11 A. Where is it? I mean, it sounds 12 12 2 complications can skew the data into showing a like I've seen it before but can you point me. 13 13 higher incidence than the true incidence of the Q. Same page where it has 14 14 complications? "References". 15 15 A. Either higher or low. Because low A. Yes. 16 quality data means that it's not very accurate; 16 Q. So that at least in the year 2000, 17 that's what it means. 17 we have -- approximately seven of the authors are 18 18 Q. When you mentioned "large" before, all surgeons, Duke surgeons, who are using 19 how many patients are you talking about when you 19 Mersilene mesh almost exclusively in vault 20 20 say large? suspension surgeries; is that correct? 21 21 A. The larger the better. This group A. That's what it says. 22 22 Q. Did that factor in your opinions is not bad. I mean, again, I cannot put a scale to 23 23 it. But, I mean, this study is relatively large. in this case at all? 24 I think it was -- how many overall? 273 patients. 24 A. No. 25 25 So it gives you a representation, a good Q. After reporting the results of Page 59 Page 61 1 representation. this, their study, do the authors say that they're 1 2 2 going to stop using Mersilene? Q. Okay. If we can turn to the next 3 3 page of your report, page 10. A. I don't know what they said after. 4 4 A. Yes. I mean, there is a conclusion in the paper that new 5 O. You note in the final conclusion 5 materials are needed, but if they stopped using it, 6 of the publication that new materials are needed to 6 if they started using some other mesh, I don't 7 7 lower the erosion rates; do you see that? know. 8 8 Q. Have you seen papers previously A. I do. 9 9 that they'll state right out that because of the Q. Would you agree that science is 10 always evolving? 10 results of this study, they've ceased using that 11 A. I do. 11 material at the institution? 12 12 Q. And since you have the paper in A. I may; I don't recall 13 front of you, can you turn to the final section in 13 specifically. Usually it's for drugs or treatment 14 this paper. I believe it's called the "Comment", 14 approach or some other. Some studies are 15 15 which is where it's quoted from in your report. terminated earlier. 16 16 Q. Do you have any criticism of these A. Oh, in the paper. 17 17 Q. Sorry the publication. The third Duke surgeons decision to use Mersilene mesh almost 18 18 to last page begins a section called "Comment". Do exclusively in their vault suspensions? 19 you see that? 19 A. I don't know what's their 20 20 rationale for using it exclusively. 21 Q. Were you aware that the authors of 21 Q. I think that in the comment 22 this study use Mersilene almost exclusively in 22 section they tell us part of the rationale. Give 23 23 abdominal sacral colpopexy? me two seconds and I'll find it. 24 A. Well, they described a large 24 The last paragraph: 25 25 number of them. If they were -- well, they use "In conclusion, both abdominal

	Page 62		Page 64
1	sacral colpopexy and abdominal-only	1	A. "Although it can be partially
2	sacral colpoperineopexy appear to	2	dependent on surgical technique, the mesh itself is
3	have a relatively low comparable	3	a major factor in the early mesh exposures."
4	rate of vaginal mesh erosion."	4	Yes.
5	Do you see that?	5	Q. And then you state: "Presence of
6	A. Yes, but they compare Mersilene to	6	foreign body in the wound is a known cause for
7	Mersilene.	7	retarded healing." Do you see that?
8	Q. The authors of this paper felt	8	A. I do.
9	that the rate of erosion was low, correct?	9	Q. Then you cite to the Robbins and
10	MR. HAIL: Objection, speculation.	10	Cotran Pathologic Basis of Disease?
11	THE WITNESS: I don't know what's low	11	A. It's a pathology bible, for
12	and what's high, how they scale anything.	12	residents at least.
13	I think we saw that the length of the	13	Q. In that section on tissue repair,
14	study was insufficient to detect long-term rates of	14	it actually lists nine factors; do you recall that?
15	complications. That "low" can be relative. If	15	A. Oh, there are multiple factors
16	they have done the study twice as long, and maybe	16	which can affect healing, yes.
17	it would not be as low.	17	Q. You agree those factors are
18	BY MR. SNOWDEN:	18	infection?
19		19	
	Q. Would you disagree with their		A. Infection, yes.
20	statement that it's relatively low?	20	Q. Diabetes?
21	A. I would disagree with "relatively	21	A. Diabetes. Diabetes controlled and
22	low". I mean, relatively low for that timeframe,	22	not controlled: That's a big difference. When
23	maybe. But not overall for the device itself. But	23	somebody has well very controlled diabetes, there
24	I also have to remind you that they are comparing	24	may be no difference at all.
25	Mersilene to Mersilene. Partially, that sentence	25	Q. Nutritional status?
_	-	+	
	Page 63		Page 65
1	<u>e</u>	1	_
1 2	refers to slightly different procedures using	1 2	A. Yes. Somebody is well nourished.
	refers to slightly different procedures using Mersilene.		A. Yes. Somebody is well nourished.Q. Use of steroids?
2	refers to slightly different procedures using Mersilene. Q. Do you recall reviewing a 2004	2	A. Yes. Somebody is well nourished.Q. Use of steroids?A. Yes.
2 3	refers to slightly different procedures using Mersilene. Q. Do you recall reviewing a 2004 study by Nygaard entitled, "Abdominal Sacral	2 3	A. Yes. Somebody is well nourished.Q. Use of steroids?A. Yes.Q. Mechanical factors?
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2 3 4 5	refers to slightly different procedures using Mersilene. Q. Do you recall reviewing a 2004 study by Nygaard entitled, "Abdominal Sacral Colpopexy: A Comprehensive Review"? A. I remember his name. His or her,	2 3 4 5	 A. Yes. Somebody is well nourished. Q. Use of steroids? A. Yes. Q. Mechanical factors? A. Mechanical is similar to foreign object. I mean, there is a mechanical separation
2 3 4 5 6	refers to slightly different procedures using Mersilene. Q. Do you recall reviewing a 2004 study by Nygaard entitled, "Abdominal Sacral Colpopexy: A Comprehensive Review"? A. I remember his name. His or her, the name of the author. I remember the name.	2 3 4 5 6	 A. Yes. Somebody is well nourished. Q. Use of steroids? A. Yes. Q. Mechanical factors? A. Mechanical is similar to foreign object. I mean, there is a mechanical separation of the wound, yes.
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	Page 66		Page 68
1	because it's impossible to list all possible	1	case-specific report for Ms. Berden
2	foreign objects.	2	A. Yes.
3	But the effect is not limited to steel,	3	Q if you would.
4	glass or bone. These are more common, but it's not		We've already established that she's
5	limited to	5	been implanted with Mersilene mesh through
6	Q. On page 4 of your report?	6	abdominal sacral colpopexy, correct?
7	A. Yes.	7	A. Yes, that is my understanding.
8	Q. I believe you're discussing here	8	Q. Is that a transvaginal approach?
9	complications with a multifilament polyester mesh;	9	A. No, it is not transvaginal
10	is that right?	10	approach. But we had a larger group of devices and
11	A. You mean in the second paragraph?	11	they sort of are united with this designation of
12	Q. Yes, sorry. The citation number	12	transvaginal devices. But some of them we know, we
13	27	13	understand that they are not placed transvaginally.
14	A. Yes.	14	They do include vaginal area, vaginal wall, but not
15	Q of that paragraph?	15	specifically transvaginal placement approach.
16	Do you recall how many people in that	16	So maybe it's not very precise
17	study had been implanted with Mersilene?	17	definition of transvaginal meshes, but like
18	A. I don't think this part is I	18	Gynemesh PS, we know that they're not placed
19	don't remember exactly what type of polyester	19	transvaginally. Some of them are, but some them
20	multifilament mesh was there, Mersilene or other.	20	are not.
21	They specifically called it	21	It's within the same group, because the
22	multifilament polyester, what I see in the quote,	22	bulk of the devices is transvaginal.
23	which is the same as Mersilene design.	23	Q. And for this report, I've noticed
24	Q. Well, I'm not trying to trick you.	24	that you copied and pasted the entire records
25	I'll represent that Mersilene was one of the	25	themselves into your medical summary; is that
	Page 67		D (0
	rage 07		Page 69
1	polyester multifilament meshes used in that study.	1	right?
1 2		1 2	
	polyester multifilament meshes used in that study.		right?
2	polyester multifilament meshes used in that study. And I just simply want to know, do you know how	2	right? A. Yes. I mean, lately some records
2 3	polyester multifilament meshes used in that study. And I just simply want to know, do you know how many patients had been implanted with Mersilene in	2 3	right? A. Yes. I mean, lately some records were coming in the poorest kind of quality, at
2 3 4	polyester multifilament meshes used in that study. And I just simply want to know, do you know how many patients had been implanted with Mersilene in that study?	2 3 4	right? A. Yes. I mean, lately some records were coming in the poorest kind of quality, at least my text recognition didn't. And I just
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2 3 4 5 6	polyester multifilament meshes used in that study. And I just simply want to know, do you know how many patients had been implanted with Mersilene in that study? A. I didn't pay attention because polyester multifilament is polyester multifilament.	2 3 4 5 6	right? A. Yes. I mean, lately some records were coming in the poorest kind of quality, at least my text recognition didn't. And I just realized, I don't have to do text recognition, I can just take picture of the it's easier.
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	Page 70		Page 72
1	does not specifically address Ethibond?	1	been shown as a risk factor for mesh erosion in
2	A. Well, there is a relevance of	2	when a mesh is placed in abdominal sacral
3	Ethibond and Mersilene. So we know that	3	colpopexy?
4	multifilament sutures preceded multifilament	4	A. I am aware, again, of reports of
5	meshes, at least for a short time.	5	smoking affecting rates of erosion.
6	And the amount of multifilament sutures	6	Again, this would be factor which
7	that is used is larger. I mean, they used but	7	modifies the risks. It doesn't introduce it; it
8	the studies, many studies, studied the effects of	8	doesn't eliminate it. There a risk specific for
9	monofilament versus multifilament design, based on	9	mesh because this is the main factor.
10	sutures.	10	Then there are some other factors which
11	So in a way, Ethibond is similar thread	11	can change that risk either higher or lower. To
12	or fiber type as Mersilene. It's multifilament,	12	me, smoking doesn't have significant effect to
13	and it's polyester.	13	me, as a pathologist, it doesn't have significant
14	So there is some similarity between	14	effect in terms of tissue quality. It's
15	Ethibond and single fiber in Mersilene mesh.	15	indistinguishable to me.
16	Q. Have you told anyone at	16	Tissue of a non-smoker versus smoker
17	St. Michael's Hospital that Ethibond is harming	17	will look exactly the same in the microscope.
18	their patients?	18	Smoking does not change tissues to a degree that
19	A. No, I didn't.	19	would be detectible microscopically.
20	Q. Do you know if it's used at	20	Q. Is obesity a risk factor for mesh
21	St. Michael's Hospital?	21	erosion when a mesh has been placed with abdominal
22	A. You asked me that question and I	22	sacral colpopexy?
23	think I said I answered that, yes, they are	23	A. I don't know. I would have to ask
24	used. And it's single suture. You cannot compare	24	urogynecologist. I am not aware.
25	one single suture with mesh much larger, the	25	Q. Are you aware whether diabetes is
	Page 71		Page 73
1	volume of material is many fold larger.		a might footon for moods anguing ryban a magh hag baan
		1	a risk factor for mesh erosion when a mesh has been
2	Q. I think I asked about Mersilene	2	placed via abdominal sacral colpopexy?
2 3	Q. I think I asked about Mersilene but you probably answered about Ethibond, but we	2 3	placed via abdominal sacral colpopexy? A. I think we discussed it.
2 3 4	Q. I think I asked about Mersilene but you probably answered about Ethibond, but we can move on.	2 3 4	placed via abdominal sacral colpopexy? A. I think we discussed it. Diabetes, especially poorly controlled diabetes, is
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2 3 4 5 6	Q. I think I asked about Mersilene but you probably answered about Ethibond, but we can move on. A. You did ask about Mersilene and I answered that I don't know.	2 3 4 5	placed via abdominal sacral colpopexy? A. I think we discussed it. Diabetes, especially poorly controlled diabetes, is a risk factor for poor healing. When it's well controlled, people live normal lifespan and they
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	VIAGINIII IGI	Т	D 76
	Page 74		Page 76
1	to sort of put in chronological order for me to	1	the neutrophils would just autolyse.
2	organize summary. The records speak for	2	Q. On page 32, to your CB-4, are
3	themselves. So I was aware of everything which was	3	there neutrophils that you can identify and circle
4	in the records.	4	on this image?
5	Q. Do you recall anything else from	5	A. Well, the entire part, this part,
6	the records that you didn't include that is	6	is combination of inflammatory cells some of
7	pertinent to your opinions in this case?	7	them are neutrophils, debris and bacteria, all
8	A. Well, as I said, I mean I looked	8	together, this whole purple sort of area.
9	at all records. I include part of them in the	9	Q. The purple kind of half-moon at
10	summary, or copies of the pages. Obviously, I	10	the bottom?
11	couldn't copy everything.	11	A. Yes. It's a combination of
12	Q. Ms. Berden underwent a revision of	12	debris, inflammatory cells most of them are
13	her Mersilene mesh in August of 2004, correct?	13	neutrophils and then bacteria. That's pus.
14	A. 2014.	14	That's how pus looks under the microscope.
15	Q. Sorry.	15	Q. And are those, the dark purple
16	A. You said 2004.	16	kind of round structures, are those the
17	Q. Yeah, it wasn't a trick.	17	inflammatory cells?
18	Were there any cultures done with the	18	•
19	mesh at that time?	19	A. Nuclei of inflammatory cells but
			then you see sort of, well, there's a high
20	A. I don't remember now.	20	magnification of this on page 33. Then you can see
21	Q. Okay.	21	the pink cytoplasm.
22	A. Probably could probably they	22	Q. You make a statement in your
23	were done, but I don't remember now.	23	report that Mersilene mesh showed no surface
24	Q. If they were done, is that	24	degradation, which was in keeping with material
25	something you would have put in your report?	25	other than polypropylene. Do you recall that?
	Page 75		Page 77
1	A. No, not really. I saw bacteria	1	A. Yes, I do. That's how I one of
2	right there, I mean, it was filled, soaked with	2	the ways of distinguishing between polypropylene
3	bacteria.	3	and polyester.
4	Q. So for purposes of your opinions	4	Q. Are you aware of the chemical
5	in this case, are positive culture necessary?		
6		5	compatibility of Mersilene to formalin?
מו	•	5	compatibility of Mersilene to formalin?
	A. No.	6	A. No, it wouldn't have any
7	A. No. Q. Unnecessary?	6	A. No, it wouldn't have any significance to my opinions here in this case. So,
7 8	A. No.Q. Unnecessary?A. Unnecessary.	6 7 8	A. No, it wouldn't have any significance to my opinions here in this case. So, basically it's a multifilament mesh. I know that
7 8 9	A. No.Q. Unnecessary?A. Unnecessary.Q. When you received the specimen in	6 7 8 9	A. No, it wouldn't have any significance to my opinions here in this case. So, basically it's a multifilament mesh. I know that it was Mersilene from the records.
7 8 9 10	A. No.Q. Unnecessary?A. Unnecessary.Q. When you received the specimen in this case, was it fixed in formalin?	6 7 8 9	A. No, it wouldn't have any significance to my opinions here in this case. So, basically it's a multifilament mesh. I know that it was Mersilene from the records. From what I see, it's not
7 8 9 10 11	 A. No. Q. Unnecessary? A. Unnecessary. Q. When you received the specimen in this case, was it fixed in formalin? A. (Witness reviews document). 	6 7 8 9 10	A. No, it wouldn't have any significance to my opinions here in this case. So, basically it's a multifilament mesh. I know that it was Mersilene from the records. From what I see, it's not polypropylene, because by that by three years in
7 8 9 10 11 12	 A. No. Q. Unnecessary? A. Unnecessary. Q. When you received the specimen in this case, was it fixed in formalin? A. (Witness reviews document). Judging by the quality of the at 	6 7 8 9 10 11 12	A. No, it wouldn't have any significance to my opinions here in this case. So, basically it's a multifilament mesh. I know that it was Mersilene from the records. From what I see, it's not polypropylene, because by that by three years in the body there would be a degradation layer, like I
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No. Q. Unnecessary? A. Unnecessary. Q. When you received the specimen in this case, was it fixed in formalin? A. (Witness reviews document). Judging by the quality of the at least debris which was residual, it was fixed in formalin at one point of time. I don't remember if it was filled with formalin totally, or drained. But you can see that neutrophils are there. If it was left unfixed, the neutrophils would autolyse. Then it would have overgrowth of bacteria and everything else. But in the you can see clearly that there was some fluid left on the mesh. And then, for example, page 32 and	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No, it wouldn't have any significance to my opinions here in this case. So, basically it's a multifilament mesh. I know that it was Mersilene from the records. From what I see, it's not polypropylene, because by that by three years in the body there would be a degradation layer, like I see in other multifilament polypropylene meshes like ObTape. It's consistent. It's multifilament. It has no features of polypropylene, at least those that I am aware of, and the record says it's Mersilene. Q. Are you aware if Mersilene is chemically compatible with alcohol? A. It's not dissolved. From what I see, it's been through alcohol, it's been through xylene, formalin and the fibers are there,

Page 78 Page 80 1 chemically compatible with xylene? 1 exudate. 2 2 A. Again, compatible enough to be If it's not supported it can move 3 preserved on the slide. It went through these 3 through multiple means, if there is no sort of 4 4 stages and it's on the slide. matrix which would hold it together. 5 Q. Have you done any chemical testing 5 Q. And if we turn to CB-7 on page 35. 6 of Mersilene? 6 Is it your opinion that these fibers shown here are 7 7 more spread out than they would have been in vivo? A. No. 8 8 Q. Have you reviewed any literature A. They may or may not. They may be 9 that discusses the chemical resistance of 9 exactly where they were in vivo or maybe a little 10 10 Mersilene? bit spread out. Unlikely they are closer to each 11 A. No, I don't think it would be 11 other. But again, they can move if they're not 12 12 relevant in this case. I don't see degradation supported. 13 13 layer on the surface. So if there are other Some of them are almost touching, so I 14 14 changes, degradation or other changes of the guess there cannot be smaller space than that. And 15 polymer through any other process, I cannot detect 15 some of them are slightly further apart. 16 it microscopically. 16 Q. Are the gold colored flecks in And I perfectly accept that there might 17 17 here, is that hemosiderin? 18 18 be changes of -- sorry, of polymer over time, which A. No, probably not. It's some other 19 degenerative pigment. Or maybe it's part of the may not be detectible by microscopy. They might be 19 20 20 detectible by other means, but not by transmission dye for whatever reason because it's -- no. It's 21 21 microscopy. H&E. 22 22 Q. In your report, in the So it may be some other -- because many 23 23 pathological findings, you note that "the spaces pigments form during degradation of biological 24 were large enough to accommodate shelter bacteria"; 24 materials. Like when tissue rots, it can produce 25 25 do you recall that? different pigments and just products of degradation Page 79 Page 81 A. Which page? of biological material. 1 1 2 2 Q. Page 26, second to last paragraph. Q. Fair to say in this specimen 3 3 A. Yes. there's no mucosa; is that correct? 4 4 Q. Did you measure those spaces? A. That's correct. 5 A. They ranged from almost no space 5 Q. In this case, you did not find any 6 when they were touching, to a larger spread, 6 fibrous connective tissue; is that fair? 7 7 15 microns or more. A. Not in a way we saw in other 8 8 Q. The image on -- let's turn to page photographs. I mean, there might be some remnants 9 CB-9 on page 37. 9 of it which are sort of masqueraded within the 10 A. Oh, they're in there upside down. 10 purulent material, but nothing well-formed. 11 Q. Do you see that Figure CB-9? 11 Q. Essentially, the specimen you have 12 12 A. Yes, I do now. in this case is a mesh surrounded by purulent 13 13 Q. These fibers appear to be split material with some neutrophils, and in your opinion 14 apart somewhat; is that fair? 14 bacteria: is that fair? 15 15 A. Yes. A. Yes, but it's not what was in the 16 16 body. I mean, because -- there is no tissue which Q. Okay. 17 17 supports it. So we don't know how far they were. A. The debris is a combination of 18 18 But to answer your question, yes, in this specific necrotic tissues, whatever was preexisting there. 19 19 slide, they are split apart. And we know it would be mostly fibrous tissue. 20 20 Q. Okay. Is this an example of kind Q. I'm just trying to pin down, so at 21 of what can happen with the microtoming process in 21 trial you don't come in and say you found nerves 22 terms of disrupting how it had looked in the body? 22 and all sorts of other things in this specimen. Is 23 23 A. It's not just microtoming. It's that fair? 24 just because the fibers are not supported by the 24 A. It's fair, correct, yes. 25 25 tissue because it was floating in this purulent Q. Okay.

Page 82 Page 84 1 A. But I will not testify that I 1 Q. Is the basis for that opinion your 2 2 found nerves. At least not in this specimen. general reports in this case? 3 3 Q. All right. My understanding of A. Well, the basis for this opinion, 4 4 your opinion in this case is that you're not able my knowledge, training and experience and my experience in research in mesh -- in the field of 5 to tell whether this was -- the infection occurred 5 6 first or whether the erosion occurred first; is 6 implantable meshes. 7 7 that correct? Generally, the report summarizes those 8 8 A. That's correct. I don't think I opinions to a degree, but my knowledge is a bit 9 9 can pinpoint which was initial. broader than just the report. 10 10 Q. And would you also agree that in Q. And I think my point really is, 11 this case, you didn't have any tissue on the mesh 11 you haven't seen any tissue from Ms. Berden that is 12 12 to be able to determine whether there were any still in her body that you're going to opine about; 13 13 effects from uncontrolled diabetes in the tissue? is that fair? 14 14 A. I don't think in this location A. Should have asked that first time. 15 15 even if you have tissue you would be able to see Yes, I have not seen -- you're correct, 16 the effect of uncontrolled diabetes or controlled 16 I have not seen tissue beyond what I've seen in the 17 diabetes. Even if there was tissue, it would be 17 specimen. 18 18 difficult. So if I'm opining on factors such as 19 19 inflammation -- foreign body type inflammation or, I mean, mostly for uncontrolled 20 20 diabetes you would need peripheral tissues. And in this case, scarring, residual scarring or 21 21 it's a clinical diagnosis; it's not histological residual nerve damage, that would be based on my 22 22 diagnosis. I mean, you can have some findings and general understanding, general knowledge. 23 23 with clinical history you can interpret that. Q. What's the significance for your 24 Q. And in terms of, in this case, 24 opinions of the gross pictures you include in your 25 25 there's no tissue for you to be able to determine report, your CB-1 through 3? Page 83 Page 85 1 whether smoking had effects on Ms. Berden's issue; 1 A. Can I run to washroom quickly? 2 2 is that fair? -- RECESS TAKEN AT 3:17 --3 3 A. I told you before, you can give me -- UPON RESUMING AT 3:22 --4 4 a whole body, and it would be difficult who is -- Reporter's Note: Whereupon, the 5 smoker, who is not smoker. I mean, the changes in question was read as recorded above. 6 tissue are mostly oncogenic effects like lung 6 THE WITNESS: Documentation showing 7 7 cancer, and still nonsmokers can develop lung what exactly what I received, what state, and 8 8 cancers. showing that it was covered -- the mesh is 9 9 You can examine lungs, you can see consistent with Mersilene mesh, that it's covered 10 pigment, but sometimes other sources of pigment 10 with purulent exudate, how grossly it looks, then I 11 like working with oven, inhaling smoke of other 11 show it microscopically. 12 12 origin, will give same effects. BY MR. SNOWDEN: 13 13 Q. On page 28 of your report, in the Q. Have you ever seen a pristine first full paragraph, you have an opinion regarding --14 14 Mersilene mesh? 15 15 A. It's a signature page, yes. A. Yes, I did. I have a sample. 16 16 Q. Yes, the signature page. Q. Do you have that in your lab? 17 17 You have an opinion regarding that: A. In my office. I've had it for 18 18 "Residual tissue damage and many, many years, at least from 2013. Dr. Ben 19 19 scarring caused by the mesh, David brought it to me, he brought his whole 20 20 infection, subsequent surgeries collection of different types of meshes. 21 continued and continue to pose a 21 Q. Have you done any testing or 22 risk for pain and other associated 22 analysis on pristine mesh? 23 23 symptoms for Ms. Berden." A. No, I haven't. 24 Do you see that? 24 Q. Figure CB-4, what is the

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A. I do.

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significance of this to your opinions in this case?

Page 86 Page 88 1 A. CB-4 is a microscopic section of 1 O. Is the bacteria -- where is the 2 2 what we saw grossly in previous images, and it bacteria here? 3 shows part of the mesh and then purulent material, 3 A. This sort of smaller --4 4 it's bacteria, debris. O. Circle it so we can save it for Essentially, that's how pus looks 5 5 posterity. 6 grossly on previous images, and that's how pus 6 A. I will circle some representative 7 7 looks microscopically. clumps of bacteria, it doesn't mean that it will be 8 8 Fixed pus, not autolytic tissue which limited -- bacteria will be limited to the circled 9 is necrotic through autolysis. So this is tissue 9 areas. 10 which was purulent and then was fixed by formalin. 10 O. That's fine. 11 Q. With autolysis, do you lose tissue 11 A. So these are larger clumps. 12 cellularity in the tissue? 12 Q. Is that pen showing up? 13 A. You lose everything. It becomes 13 A. Yes, it is showing up. 14 one homogeneous, pink, amorphous material. You can 14 Q. Okay. So you circled that in 15 15 have bacteria proliferating, but if it's pure yellow highlighter? 16 16 autolysis it becomes pink. A. Yes. I mean these are clumps of 17 17 bacteria with debris together and with other And if everything is pink, homogenous, 18 18 have some ghost sort of contours of what was particles. But mostly bacteria. 19 19 existing before, to a degree. After a while, it Q. And what's the basis -- I think --20 20 all becomes lost, lose matrix. what's the basis for your opinion in this case that 21 Q. Okay. So that includes like --21 the mesh was infected? 22 you lose fibroblasts in autolytic tissue? 22 A. Clinical history. So the 23 23 A. If they were there. Anything, I descriptions of infection in the mesh. And then 24 mean -- well, bone will keep a structure, cartilage 24 examination, gross examination. Clearly it was 25 will keep some structure to a degree. But with 25 covered with pus. Page 87 Page 89 1 time you lose all details. Either mummifies or it 1 And then microscopic examination. I 2 disintegrates, liquifies and it's gone. 2 can see the most features of infection, pus, 3 3 Q. CB-5, what is the significance of purulent exudate, which is extreme degree of acute 4 what we see here to your opinions in this case? 4 5 A. It's magnification, it can have 5 And the bacteria, which we talked many 6 some preservation of tissue, so it's dried up. But 6 times and we don't see bacteria as often. So in 7 7 if it remains wet, it will be -- sorry. That's most cases there is mesh erosion, there is a degree 8 8 of infection, but we only see neutrophils as professional --9 9 Q. Let's come out of the rabbit hole. reacting to those bacteria. So if bacteria are 10 10 That was my fault. clear, they don't grow in such big numbers. In 11 this specific case, we see a lot of them, large 11 What is the significance of what you 12 12 see in CB-5 to your opinions in this case? colonies of bacteria. 13 13 A. It's a higher magnification of Q. Okay. CB-7, if you turn there. 14 similar area, looks different. It's the same, it's 14 A. Yes. 15 15 part of mesh, and then there is this Q. Could you circle -- is it your 16 fibrinopurulent exudate on the surface of mesh. 16 opinion there's bacteria in CB-7? 17 17 It's essentially how pus looks at high A. They're mixed in between mesh 18 18 fibers. They are mixed with other, some amorphous magnification. 19 19 Q. And is there -- turning to CB-6, particles and amorphous material. 20 Q. Can you circle representative 20 anything new that you haven't already discussed 21 about CB-4 and CB-5? 21 areas of bacteria? 22 22 A. I can circle representative area, A. CB-6 is more focusing on interior 23 sort of compartments within the mesh, and, mostly, 23 one. I circled one but it doesn't -- it's not 24 it is bacterial proliferation between the mesh 24 limited to only one. 25 25 fibers. Q. So you circled that with the

Page 90 Page 92 1 yellow highlighter? 1 A. Just to show where the fibers are. 2 2 A. Yes. Again, it's professional habit, reflex. There is 3 3 foreign object, you use polarized light. Q. Anything different about the 4 4 significance of what's depicted here from what Q. Is there any additional 5 you've already told us? 5 significance for purposes of your opinions in what 6 A. This is more compact and it shows 6 is shown in CB-9? 7 7 size of bacteria and size of the spaces. And it A. It's a high magnification, again, 8 demonstrates the fact which was known before and 8 Gram stain. Bacteria appear orange. I don't see 9 9 was studied before in hernia meshes and studied, purple or blue color bacteria. May or may not 10 10 and those studies were used for classification reflect Gram positivity or Gram negativity, because 11 purposes. 11 I never studied if Gram stain works well in the 12 12 presence of mesh, or specifically polyester mesh. The spaces between filaments and 13 13 multifilament design were too small for cellular They appear Gram-negative. Again, it 14 14 traffic. Neutrophils cannot clear bacteria from will be subject to the validity of the Gram stain, 15 15 these areas. So bacteria relatively sheltered in and I don't think it's relevant. 16 these spaces. 16 I mean, the main feature here is that 17 17 There's no tissue ingrowth, there's no there are bacteria, they would stain with any 18 18 matrix where the neutrophils can move around, and stains. 19 19 that's why this mesh is classified as class 2 or (Reporter sought clarification). 20 20 A. There are bacteria, with class 3. 21 21 (Reporter sought clarification.) any stain. You can see them with any stain. 22 Class 2 or class 3. Specifically for 22 Sometimes we get bacteria in 23 23 Mersilene, it's class 3 because of these factors, endocarditis samples, like the leaflets from the 24 because these factors predispose meshes to 24 lab. And you check with the cultures, and the 25 25 infection. culture says Gram-positive, but your stain shows Page 91 Page 93 1 Q. CB-8 looks like Gram staining of different. 1 2 2 the mesh? So then we report it, and just to 3 3 contribute to the treatment plan. So sometimes A. Yes. 4 Q. Why did you use Gram staining in 4 cultures do not perfectly correlate with the 5 this case? 5 microscopic appearance. 6 A. It's just habit, professional -- I 6 It's a sampling issue, where you took 7 didn't have to. Every time I think about bacteria 7 the sample. Also may be issue of where bacteria 8 I just use Gram stain. It's not relevant in this 8 grow better, because there might be different media 9 9 case, at least not relevant to my opinions. for culture. 10 10 But sometimes we do it for other I mean, if you do PCR, maybe it's a 11 bacterial conditions like bacterial endocarditis. 11 different story. The bottom line is, there may or 12 12 may not be correlation between histological Gram professional reflex. 13 13 Q. In this case, the Gram staining stain and cultures. 14 didn't pick up any Gram-positive bacteria, did it? 14 Sometimes they are contributory. 15 15 A. It's sort of red, so I didn't see Sometimes they correlate; sometimes they don't. 16 16 Q. We've discussed that there's no any purple bacteria in there. It may or may not 17 17 reflect what was in the cultures so it may or may segment, no portion of mucosa in this specimen. 18 18 Would you agree with me that this specimen does not not reflect what was in the entire mesh. 19 19 Maybe the stain doesn't work well contain the site of mesh erosion? 20 20 within the spaces in between fibers; I don't know. A. I would agree that there is no 21 But most of the material was red or orange color. 21 mucosa, but when there is a large erosion, there's 22 22 no mucosa because mucosa is necrotic. You can only Q. Which is Gram-negative? 23 23 A. Yes. see mucosa at the edges, viable edges, for any 24 Q. Why did you use polarized light in 24 erosion. 25 25 CB-8? So if you excise part which is eroded

Page 94 Page 96 1 already, they will be never, um, an erosion. I 1 Because the machines and the chemicals 2 2 think we had a case like this yesterday or are bought from the same suppliers, and the same 3 3 sometime. I mean, we discussed it. protocol has been used and the same approach has 4 4 Q. Would you agree that you don't been used for a hundred years so... 5 5 have a site of the mesh eroding through Ms. And this is the best way to do 6 6 Berden's tissues in this case? microscopy. 7 7 A. That's what I told you. We might Q. If you can turn back to your 8 be looking at the erosion, at the ulcer bed, but 8 supplemental report in this case, please. 9 9 On page 11 of the report, you have a because the ulcer bed was composed of mesh, that's 10 10 section that begins "for mid urethral slings"; do how it looks. 11 There may not be any tissue left at the 11 you see that? 12 12 ulcer bed. It may be just mesh with pus. And the A. Yes. 13 13 only way to actually see the tissue is to see where Q. Is it fair to say this section is 14 14 it is still preserved. This will be edges and based on your review of ObTape mesh? 15 15 maybe bottom, deeper than the mesh. A. Yes, this is the only 16 Q. Okay. So you have the mesh that 16 polypropylene multifilament mesh which was -- which 17 has eroded, but not the -- where it meets the 17 I am aware of used in vaginal locations. 18 18 tissue essentially? Q. The vaginal location this was used 19 19 A. Yes, there is no transition point in is different than the location Ms. Berden's mesh 20 20 with the viable tissue. was implanted; is that fair? 21 21 Q. Is it fair to say that you will A. Yes and no. I mean, it's not 22 not be offering any opinions in this case regarding 22 specifically the same location. But it's the same 23 23 Ms. Berden experiencing pain, based solely on your environment, the same vaginal wall, the same risks 24 review of the mesh specimen? 24 for erosion, because we know that both pelvic organ 25 25 A. Not solely. As I said, it's prolapse meshes and slings can erode. They are Page 95 Page 97 combination of multiple pieces of information. 1 1 affected by the same mesh-body interactions. 2 2 Based on the specimen, I can say that there was Q. Are there any differences between 3 mesh. Mersilene. I can confirm it was infected. 3 ObTape mesh and Mersilene mesh that are important 4 There was focus of infection, that I can show. 4 for your opinions in this case? 5 5 But then the rest will be coming from A. There are similarities and there 6 records, from my general knowledge. are differences. Mainly, the similarities, which 7 7 Q. Okay. And is that true for any are important to me. Similarities, multifilament 8 8 other associated symptoms outside of the infection design. There are differences, of course. 9 9 itself? It's a different material, different 10 10 A. Yes, for associated symptoms, yes. polymer. It's a different weave, but what is 11 For infection, I can show it; I can show what's the 11 important to me is the similarity. And similarity 12 12 cause for infection; I can identify mesh. For is multifilament design, and higher risk for 13 associated symptoms, this would be based on general 13 infection. 14 knowledge. 14 Q. Okay. Do you recall what the 15 15 MR. SNOWDEN: I'm just going to take a overall risk of infection is with ObTape? 16 16 look at my notes here. A. So I compared the reasons for 17 17 BY MR. SNOWDEN: excision for ObTape and reasons for excision for 18 18 Q. When you processed the tissue -other slings, of monofilament slings, and the 19 19 when you processed the mesh to create slides, did difference was significant. 20 20 you use the standard procedures that you always use Most of the ObTape slings in my data 21 in creating pathology slides? 21 set were excised for infection and/or erosion, 22 A. Yes, the procedures are standard. 22 while monofilament meshes, they have much lower 23 23 They are not just standard for St. Michael's rate of erosion. I don't remember exactly, but we 24 Hospital laboratory. They are standard throughout 24 can go to the abstract. There was a study. 25 North America or entire world. 25 Q. Your study?

Page 98 Page 100 1 A. Yes, my study. There were also 1 A. I do. 2 2 other studies. I mean, I just supported what Q. And that study was in chin 3 others -- because you see there are so many 3 implants; is that true? Do you recall? 4 4 references. A. (Witness reviews document). Yes. 5 5 So some of them were just reporting Q. Does the location of the implant 6 ObTape. Some of them were comparing with other 6 have any significance to your opinions in this 7 7 designs. case? 8 8 So it supported the overall A. Not specifically for this 9 9 understanding of multifilament design prone to be statement. 10 10 -- prone to infection, which was established with Q. Why not? 11 hernia meshes. 11 A. Well, chin is not a specific 12 12 And then when the multifilament designs location which would become more exposed or less 13 13 exposed to infection than any other sites. were introduced to vaginal locations or pelvic 14 14 locations, they showed the same pattern. There may be some variability between 15 15 Q. That abstract of yours that you them. It's deeper in the tissue. 16 referenced, was that looking at ObTape compared to 16 Q. If I understand this paragraph, is 17 monofilament meshes or did it also include 17 this sort of you're setting out the historical 18 18 Mersilene? history of when it was noted Mersilene, that there 19 A. ObTape compared to monofilament. 19 were infections associated with Mersilene; is that 20 20 I am not aware of Mersilene slings. fair? 21 Q. Okay. So you were just looking at 21 A. Yes, just historically. It could 22 slings because ObTape -- okay? 22 have been another location, it just happened to be 23 23 A. I was looking at slings to chin. So it has no specific significance. 24 compare, as close as possible, apples to apples. 24 MR. SNOWDEN: That's all I have, thank 25 25 This is the same vaginal location, but for clarity you. Page 99 Page 101 1 of comparison, we compared exactly the same 1 THE WITNESS: Thank you. 2 2 locations, for the same designs. MR. HAIL: Can we take a quick break? 3 3 It does support what was learned -- RECESS TAKEN AT 3:48 --4 4 decades before based on hernia meshes, so these -- UPON RESUMING AT 3:53 --5 things didn't improve when the design was used in 5 CROSS-EXAMINATION BY MR. HAIL: 6 the vaginal location, when it was moved from hernia 6 Q. Doctor, you've mentioned several 7 7 to pelvic surgeries. times during this deposition a classification 8 Q. And do you know whether the risk 8 system for meshes; do you recall that testimony? 9 9 of erosion is higher with ObTape than with A. I do. 10 10 Mersilene mesh implanted in abdominal sacral Q. Can you describe that 11 colpopexy? 11 classification system? 12 12 A. I did not compared ObTape with A. So after several decades of 13 13 Mersilene for colpopexy. I did not have those different designs used for hernia surgery, there 14 samples in my analysis. As far as I know, there 14 was enough data to classify meshes. And the main 15 15 was no comparison between them. criteria for classifications were tissue ingrowth 16 16 and infection. Q. And same question for, with regard 17 17 to infection, is it the same answer? And based on the risks of specific mesh 18 18 A. It's the same answer. One of them designs, the meshes were classified as class 1, 2 19 19 may be better; one of them may be worse. But they and 3: Microporous, macroporous -- sorry, 20 20 do belong to the same group of meshes by macroporous, microporous, and mixed designs. 21 classification, class 3. 21 So these were the main sort of -- first 22 Q. On page 3, you note that the 22 three groups of synthetic meshes. And because of 23 earlier reports of infections associated with 23 the porosity, or spaces within the mesh, were

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least the 1970s; do you see that?

multifilament mesh, Mersilene, date back to at

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crucial for tissue ingrowth and infection, this

became the main factor to classify them into

Page 102 Page 104 1 different groups. I confirmed that. 2 2 And the surgeons would know which type Q. As a pathologist, have you sought 3 3 to educate yourself on the professional literature to use and which type can lead to specific 4 4 complications, mainly, infections. regarding meshes and the different types of meshes 5 5 Q. In the classification system, that fall in the classification system? 6 where does Mersilene fall? 6 A. Yes, I did. 7 7 A. Mersilene falls into 3. It is a Q. Have you found or come to any 8 8 mixed design. It combines both larger pores and conclusions regarding your review of professional 9 smaller pores. But the drawbacks of infection are 9 literature as to how class 3 and class 1 meshes 10 10 specific for the microporous component. operate as to infection and erosion? 11 Q. You've mentioned also, there's 11 A. Yes, and I explained that smaller 12 12 been testimony you've given about monofilament spaces, they provide shelter for bacteria and less 13 13 meshes; do you recall that? traffic. That was described in the literature and 14 14 A. I do. that's what I have observed in my examination of 15 15 the samples I received. Q. In the classification system, 16 where do monofilament meshes fall? 16 Q. And have you operated -- have you 17 17 yourself conducted any peer-reviewed studies that A. Monofilament fall into class 1. 18 18 So it's the first group of devices which have would address differences, infection and erosion, 19 19 larger spaces only, they don't have smaller spaces. as to class 1 and class 3? 20 20 Therefore, they show better tissue A. Yes, I had opportunity, I had 21 ingrowth and lower risks of infection. Not that 21 similar devices, vaginal devices. 22 they are totally immune to it, but they showed it 22 One group had multifilament design, 23 23 class 3, and the other group of similar devices was lower, significantly lower enough to be in a 24 separate group from other designs. 24 monofilament. 25 25 Q. In your practice as a pathologist, And my observation, or my findings in Page 103 Page 105 that study were in line with all those published 1 have you had the opportunity to examine class 1 1 2 2 monofilament meshes? studies showing that class 3 will have higher risks 3 3 A. Yes, I examined a large number of for infection. 4 4 them, several hundred. Almost all of those class 3 vaginal 5 Q. And as a pathologist have you had 5 devices were removed for infection, and showed 6 the occasion to examine class 3 multifilament 6 microscopic features of infection. 7 7 meshes? Q. Were you the first author of that 8 8 study? A. Yes, I examined class 2 and class 9 9 3. And I observed exactly what was described in A. Yes, I was. 10 10 the published literature, for microporous Q. And was that study published in 11 components and for propensity for infection and 11 the World Journal of Urology? 12 12 limitations of tissue ingrowth in multifilament A. Yes, it was. 13 13 designs. Q. And was that a peer-reviewed 14 Q. Based on your reviews of explanted 14 journal? 15 15 mesh samples, as a pathologist, have you drawn any A. It was an abstract. I think it 16 conclusions about the -- whether one classification 16 was peer-reviewed for the publication. Because 17 17 of meshes is less prone to infection than another? some abstracts are reviewed by the committee, some 18 18 A. Yes. My observations of, in my abstracts are reviewed -- committee is the same 19 19 practice, just confirmed what was well-known in peers; it's just a smaller group. And some of them 20 published literature, that smaller pores, 20 are sent for peer review. 21 specifically in multifilament designs, are more 21 I don't remember exactly what was the 22 prone to infection. 22 review process but there is always a review 23 There are smaller spaces, less cellular 23 process. 24 traffic. The spaces can provide shelter from 24 O. And is the World Journal of

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bacteria, exactly what was described for decades.

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Urology the type of journal that pathologists and

	Page 106		Page 108
1	professionals rely upon in their work?	1	be listed in the abstracts as well.
2	A. Yes, it was also presented to the	2	Q. There it is on page 8, number one,
3	conference. So an abstract went to the journal and	3	Iakovlev, Blaivas J?
4	the presentation was presented during the	4	A. Yes.
5	conference.	5	Q. Okay. One quick question two
6	Q. Who was the sponsor of that	6	more.
7	conference?	7	When you were asked about class 1
8	A. It was one of the urological	8	versus class 3 meshes, and your analysis of those,
9	associations. I don't remember exactly.	9	is that the same work that you and I had been
10	Q. It may be listed in your CV?	10	discussing during my questioning, or was that
11	A. I can see in my CV.	11	something different?
12	MR. SNOWDEN: It's not part of the	12	A. Now I'm confused. I don't
13	exhibit, I don't think.	13	remember what we discussed.
14	THE WITNESS: It is.	14	Q. Just now you were asked about work
15	MR. SNOWDEN: Oh, it is.	15	you had done comparing class 1 and class 3 meshes;
16	MR. HAIL: Yes, towards the end.	16	do you recall that?
17	MR. SNOWDEN: I stand corrected.	17	A. Yes, now we were specifically
18	THE WITNESS: It's International	18	talking about this study.
19		19	Q. Okay. And is that the same study
20	Society of Urology. Congress of International	20	that looked at ObTape in comparison to monofilamer
21	Society of Urology.	21	meshes?
	BY MR. HAIL:		
22	Q. And when you presented your	22	A. That is correct.
23	findings to the International Society of Urology,	23	Q. Last question. Are you offering
24	did anybody come up to you and say that your	24	any opinions in this case regarding the implanting
25	findings were wrong?	25	surgeon's decision to implant Mersilene in 2011?
	Page 107		Page 109
1	A. No, because there was a long trail	1	A. No, I'm not discussing. I'm a
2	of similar publications showing the same fact. It	2	pathologist. I'm showing what went wrong and the
3	wasn't something new. That comparison has been	3	reasons or most likely mechanisms.
4	done several times before, mainly clinically. I	4	MR. SNOWDEN: All right. Thank you.
5	just had opportunity to show it microscopically.	5	MR. HAIL: Thank you, Doctor.
6	MR. HAIL: Thank you. That's all I	6	OFF THE RECORD DISCUSSION
7	have.	7	THE REPORTER: Would you like a copy o
8	MR. SNOWDEN: I just have one quick	8	the transcript?
9	question.	9	MR. HAIL: We will want a copy. But I
	•		1,7
10	REDIRECT EXAMINATION BY MR. SNOWDEN:	10	will have to get my people in touch.
10 11		10 11	will have to get my people in touch.
	Q. That presented abstract you're	11	
11 12	Q. That presented abstract you're talking about, is that on page 12 of your CV?	11 12	
11 12 13	Q. That presented abstract you're talking about, is that on page 12 of your CV?A. I just had it open. Yes.	11 12 13	
11 12 13 14	Q. That presented abstract you're talking about, is that on page 12 of your CV?A. I just had it open. Yes.Q. Which one is it on there?	11 12 13 14	
11 12 13 14 15	 Q. That presented abstract you're talking about, is that on page 12 of your CV? A. I just had it open. Yes. Q. Which one is it on there? A. 2016. 	11 12 13 14 15	
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	Page 110		Page 112
1	REPORTER'S CERTIFICATE	1	
2		2	ERRATA
3	I, JUDITH M. CAPUTO, RPR, CSR, CRR,	3	
4	Registered Professional Reporter, certify;	4	PAGE LINE CHANGE
5	That the foregoing proceedings were	5	
6	taken before me at the time and place therein set	6	REASON:
7	forth, at which time the witness was put under oath	7	
8	by me;	8	REASON:
9	That the testimony of the witness and	9	
10	all objections made at the time of the examination	10	REASON:
11	were recorded stenographically by me and were		
12	thereafter transcribed at my direction;	11	DEAGON.
13	That the foregoing is a true and	12	REASON:
14	correct transcript of my shorthand notes so taken.	13	DELGOV
15	1	14	REASON:
16		15	
17		16	REASON:
18	Dated this 24th day of September, 2018.	17	
19	,	18	REASON:
20		19	
21		20	REASON:
22		21	
	PER: JUDITH CAPUTO, RPR, CSR, CRR	22	REASON:
23		23	
24		24	REASON:
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2 3 4 5 6 7	CERTIFICATE OF REPORTER CANADA) PROVINCE OF ONTARIO) I, Judith M. Caputo, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the	2 3 4 5 6 7	ACKNOWLEDGMENT OF DEPONENT I,
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